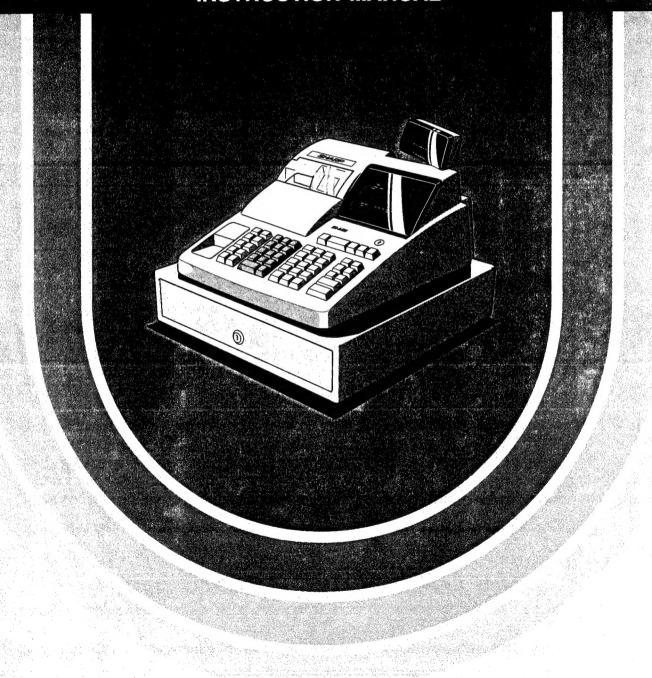
SHARP®

ELECTRONIC CASH REGISTER

ED_V\20

INSTRUCTION MANUAL



If undue force is applied to the drawer, the cash register will become unstable.

CAUTION:

The socket-outlet shall be installed near the equipment and shall be easily accessible.

VORSICHT:

Die Netzsteckdose muß nahe dem Gerät angebracht und leicht zugänglich sein.

ATTENTION:

La prise de courant murale devra être installée à proximité de l'équipement et devra être facilement accessible.

AVISO:

El tomacorriente dede estar instalado cerca del equipo y debe quedar bien accesible.

VARNING:

Det matande vägguttaget skall placeras nära apparaten och vara lätt åtkomligt.

This apparatus complies with the requirements of BS 800 (EN 55014): 1988 and BS 6527 (EN 55022): 1988.

Dieses Gerät stimmt mit den Bedingungen der EN 55014, 02. 1987 und der EN 55022, 04. 1987 überein.

Cet appareil répond aux spécifications de la EN 55014, 02. 1987 et EN 55022, 04. 1987.

Dit apparaat voldoet aan de vereiste EN 55014, 02. 1987 en EN 55022, 04. 1987.

Apparatet opfylder kravene i EN 55014, 02. 1987 og EN 55022, 04. 1987.

Questo apparecchio è stato prodotto in conformità alle EN 55014, 02. 1987 e EN 55022, 04. 1987.

Αύτή η συσκευή τηρεῖ τίς προδιαγραφές τῆς ΕΝ 55014, 02. 1987 κατ ΕΝ 55022, 04. 1987.

Este aparelho responde às especificações da EN 55014, 02. 1987 e EN 55022, 04. 1987.

Este aparato cumple las especificaciones de la EN 55014, 02. 1987 y EN 55022, 04. 1987.

CAUTION:

For a complete electrical disconnection pull out the mains plug.

VORSICHT:

Zur vollständigen elektrischen Trennung vom Netz, den Netzstecker ziehen.

ATTENTION:

Pour obtenir une mise hors-circuit totale, débrancher la prise de courant secteur.

AVISO:

Para una desconexión eléctrica completa, desenchufar el enchufe de tomacorriente.

VARNING:

För att helt koppla från strömmen, dra ut stickproppen.

INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model ER-A430. Please read this Manual carefully before operating your machine in order to gain a full understanding of its functions and performance.

Please keep this Manual for future reference. It will help you, if you encounter any operational problems.

IMPORTANT

- Install your ER-A430 in a location that is not subject to direct radiation, unusual temperature changes, high humidity or exposed to water sources.
 Installation in such locations could cause damage to the cabinet and the electrical components.
- The register should not be operated by an individual with wet hands.

 The water could seep into the interior of the ER-A430 and cause component failure.
- When cleaning your register, use a dry, soft cloth. Never use volatile liquid, such as benzine and thinner.

The use of such chemicals will lead to discoloration or deterioration of the cabinet.

- The ER-A430 register plugs into any standard wall outlet (Official (nominal) voltage).
 Other electrical devices on the same electrical circuit could cause the ER-A430 to malfunction.
- If the register malfunctions, call your local dealer for service Do not try to repair the register vourself.

PRECAUTION

This Electronic Cash Register has a built-in memory protection circuit which is operated by rechargeable batteries.

As you know, all batteries will, in time, dissipate their charge even if not used.

Therefore to insure an adequate initial charge in the protection circuit, and to prevent any possible loss of memory upon installation, it is recommended that each unit be allowed to recharge for a period of 24 to 48 hours prior to use by the customer.

In order to charge the batteries, the machine must be plugged in and left on in the "REG" (Registration) mode. This recharging precaution can prevent unnecessary initial service calls.

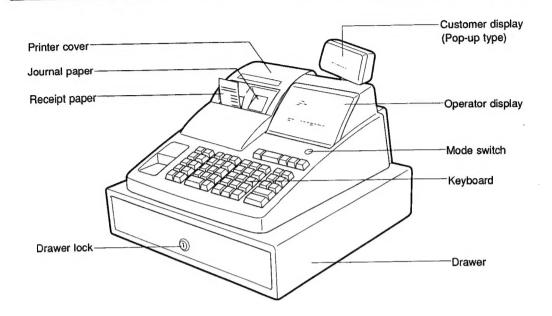
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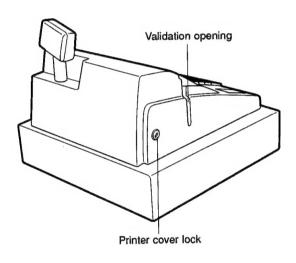
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PHYSICAL CHARACTERISTICS OF THE ER-A430 REGISTER





■ Printer cover lock

Lock: Turn 90 degrees counterclockwise.

Unlock: Turn 90 degrees clockwise.

Printer cover lock key



■ Drawer lock

Lock: Turn 90 degrees counterclock-

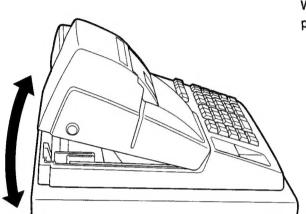
wise.

Unlock: Turn 90 degrees clockwise.

Drawer lock key

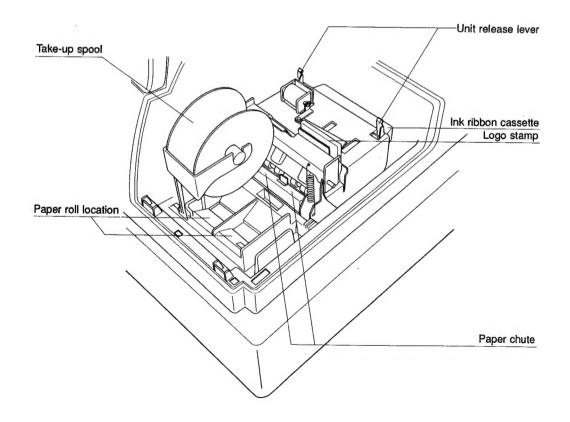


INSTALLING AND REMOVING THE PRINTER COVER



When removing the printer cover, lift up its rear.

When installing the printer cover, hook it on the pawls on the cabinet and shut it.



KEYBOARD LAYOUT AND SWITCH AND KEY DESCRIPTIONS

1. Keyboard

Standard keyboard layout

| AMT PLU/SUB | % | Θ | CASH # |
|-------------|---|----------|-----------|
|-------------|---|----------|-----------|

| ↑ RECEIPT | ⊕ JOURNAL | \otimes | • |
|--------------|---------------------|-----------|---|
| VP | RCPT | 7 | 8 |
| NS | #/TM | 4 | 5 |
| РО | RA | 1 | 2 |
| RF | S | |) |
| | | | |

| > | • | CL | | 5 | 10 | 15 |
|-------------|---|----|---|---|----|----|
| , | 8 | 9 | | 4 | 9 | 14 |
| ļ | 5 | 6 | | 3 | 8 | 13 |
| ı | 2 | 3 | | 2 | 7 | 12 |
| (| 0 | 00 | | 1 | 6 | 11 |
| | | | • | | | |

| VAT | AUTO |
|-----|------|
| CR1 | CR2 |
| EX1 | СН |
| S | Т |
| Т | L |

Note: All the keys but the numeric, clear, decimal point, multiplication, subtotal, total and two paper feed keys can be changed in their positions. If you want to change the layout, however, contact your dealer.

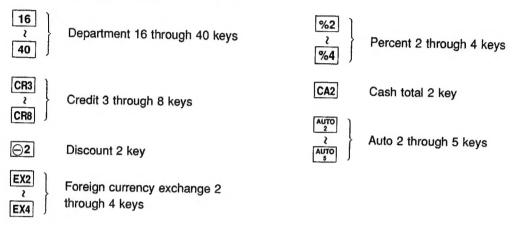
| GC. | , aloi. |
|------------------|------------------------|
| 0 } | Numeric keys |
| • | Decimal point key |
| CL | Clear key |
| \otimes | Multiplication key |
| 1 \ \lambda \ 15 | Department keys |
| MECEPT . | Receipt paper feed key |
| JOURNAL. | Journal paper feed key |
| RCPT | Receipt print key |
| VP | Validation print key |
| NS | No sale key |
| VAT | Value added tax key |
| % | Percent key |
| | |

| Θ | Discount key |
|----------|---|
| CASH | Cashier code entry key |
| EX1 | Foreign currency exchange 1 key |
| #/TM | Non-add code/time display key |
| RA | Received on account key |
| PO | Paid out key |
| RF | Refund key |
| S | Void key |
| PLU/SUB | Price lookup/subdepartment code entry key |
| CR1 } | Credit 1 and 2 keys |
| CH | Cheque key |
| AMT | Amount key |
| ST | Subtotal key |
| TL | Total (cash total) key |

AUTO

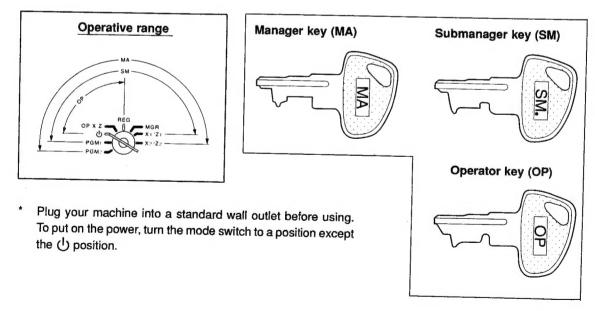
Auto key

The following function keys can optionally be mounted in addition to those shown in the figure of the standard key layout. Consult your dealer.



2. Mode switch and mode keys

The mode switch can be operated by inserting one of the three supplied mode keys — manager (MA), submanager (SM), and operator (OP) keys. The keys can be inserted or removed only when they are in the REG or $(\frac{1}{2})$ position.



The mode switch has these settings:

: For switching off the display to prevent keyboard entries

OP X/Z: For individual cashier reading and resetting, for printing of his or her arrival and departure time and for switching the state of the Receipt ON and OFF

REG : For various entries

PGM1: For programming those items that need to be changed often: e.g., unit prices of departments or PLUs and percentages

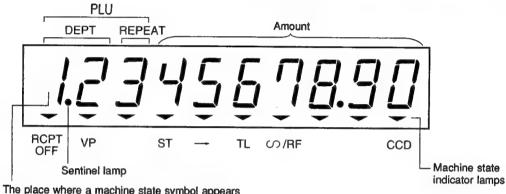
PGM2: For various PGM1 programming and programming of those items that do not require frequent changes: e.g., date, time, or a variety of register functions

MGR : Only the manager can use this setting to make various entries that are not permitted to be made by cashiers – for example, after-transaction voiding and limit overriding.

X1/Z1: For reading and resetting of any daily totals

X2/Z2 : For reading and resetting of any daily and periodic totals

1. Operator display



The place where a machine state symbol appears

The place where a machine state symbol appears

The number of repeats is displayed from "2" and counted up with each repeat. When you've registered ten times, the display shows "0".

Example: $(2 \rightarrow 3 \rightarrow 4 \dots 9 \rightarrow 0 \rightarrow 1 \rightarrow 2 \dots)$

Machine state symbols

Appears in the tenth place from the right during programming.

Appears in the tenth place when an error is detected.

Appears when an entry is made into a minus department or PLU/subdept. and when a (Floating) discount, reduction, refund, or void entry is made.

Appears in the tenth place when the tax-included subtotal is displayed or when the amount □ :

tendered is smaller than the sale amount.

U: Appears in the tenth place when the key is depressed in the MGR mode, indicating an entry into the VOID mode. While your register is in the VOID mode, this symbol continues to be in the display except when department numbers, PLU numbers or tax-included subtotals are displayed. And appears when a subtotal void is made.

Appears right below the tenth place when the cash in drawer amount exceeds a (Sentinel lamp) programmed sentinel amount. The sentinel check is performed for the total cash in drawer.

Appears in the tenth place when the EX1 ~ EX4 keys are pressed to calculate a subtotal C in foreign currency.

• Machine state indicator lamps

RCPT OFF : Lights up or down when you press the RCPT key in the OP X/Z mode.

(When the lamp is on, the machine prints on the journal alone. When the lamp is off, the

machine prints on both the journal and the receipt.)

VP : Lights up when the machine is programmed for compulsory validation printing.

ST : Lights up when a subtotal is displayed.

: Lights up when the change due is displayed after an amount tendered entry.

: Lights up when a transaction is finalized with the TL, CA2, CH or CR1 through CR8 key.

However, this lamp does not light up when a transaction is finalized with an amount tendered

entry.

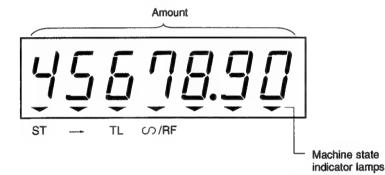
TL

: Lights up when the key is pressed or when an item void entry is made.

Lights up when the RF key is pressed or when a refund item entry is made.

CCD: Lights up when the machine is programmed for compulsory cash/cheque declaration.

2. Customer display (Pop-up type)

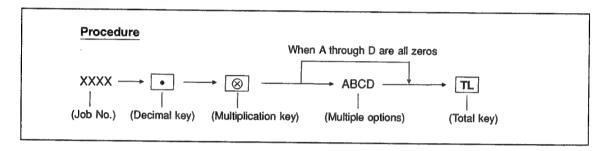


* These lamps light up in the same manner as the machine state indicator lamps in the operator display.

GENERAL INSTRUCTIONS

There are a few things you should keep in mind when programming the ER-A430.

The following sections are considered general instructions because they apply to the majority of jobs and procedures contained in this manual. If you take a few minutes to read these, you might save yourself some time and aggravation when programming.



| Entering numbers | |
|--|-----------------|
| When entering the job number or numbers as part of a procedure, use the numeric key. | It contains the |
| decimal • key and the 🛞 key used in all procedures. | |
| To change memory | |

To change the memory of the machine, always press the decimal • key after entering the job number.

Reading a program

To take a reading of a program, that is printed on the register printer, do not press the decimal • key as indicated in the procedure. After you press the TL key, the reading is printed on the register printer.

Entering options as a part of a procedure

In procedures that allow the entry of multiple options, e.g., A B C D, leading zeros are not required; however, trailing zeros are required. In the A B C D example, if you wanted to program a 1 for the C option, you would enter 10. (Leading zeros for A and B are not required; trailing zeros are required.)

Reading and entering key operations

You'll notice that there's an illustration for each job entitled — Key operation. What that illustration shows is how you would enter the associated example into the machine, using the numeric and alpha key. The key operation for setting the register number is listed as:

In (1) above, you would enter 2612, press the decimal expression with the latest lates

In most cases you end a procedure by pressing the TL key.

Recovering from an error message

If you happen to get an error beep and the message "E" when programming, to recover and correct the condition, simply press the CL key. You'll notice that the error message is cleared from the display and you can continue programming.

PROGRAMMING

Your machine allows you to program in two modes: PGM1 and PGM2. The PGM1 mode is for programming those items that need to be changed often: unit prices of departments/PLUs, and percentages. The PGM2 mode is used for programming all PGM1-mode programs and those items that require less frequent changes: date, time, tax rate, and the functions of each key.

We describe below the programming or setting procedures of various items. Program every item necessary for your store following the appropriate procedures.

* To set the mode switch to the PGM1 position, use the manager or submanager key; and to set to the PGM2 position, use the manager key.

Preparations for programming

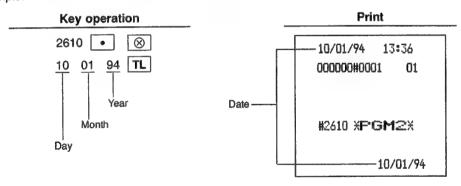
- 1. Plug your machine into a standard wall outlet.
- 2. Put the manager or submanager key in the mode switch and turn it to the PGM1 or PGM2 position depending upon the programming you are about to do.
- 3. Check to see whether both journal and receipt rolls are present in the machine. If they are missing, install journal and receipt rolls correctly.
- 4. Program necessary items into your machine.

1. Setting the date and time (PGM2 mode)

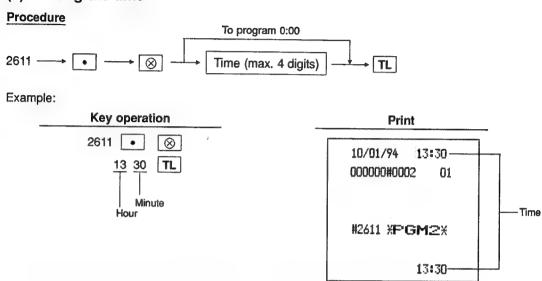
(1) Setting the date

Procedure





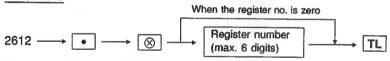
(2) Setting the time

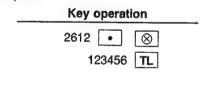


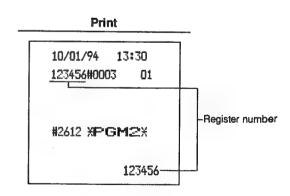
2. Setting the register number (PGM2 mode)

When your store has two or more registers, it is practical to set separate register numbers for their identification. You may set them in a maximum of six digits.



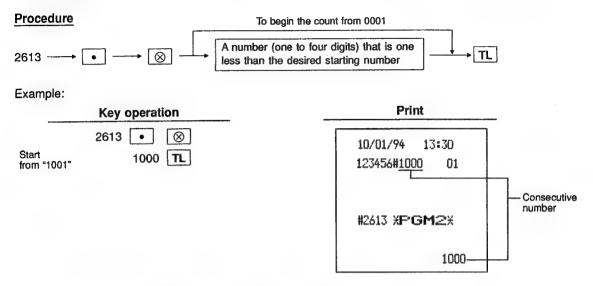






3. Setting the consecutive number (PGM2 mode)

The consecutive number is increased by one each time a receipt is published. Enter a number (one to four digits) that is one less than the desired starting number.

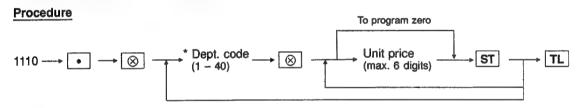


4. Programming for departments

Your machine allows you to perform the following programming for each department.

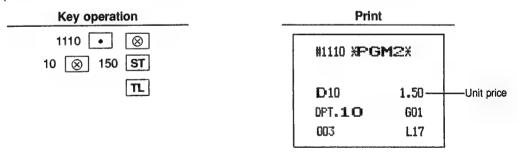
(1) Programming of unit prices (PGM1 or PGM2 mode)

Program a unit price for each department.



^{*} Dept. code: Standard 15 departments/max. 40 departments

When the programming for the largest department code is completed with depression of the ST key, the programming operation terminates automatically. This holds true of every programming for departments.

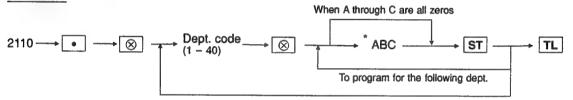


(2) Functional programming (PGM2 mode)

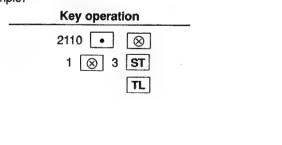
- ① Compulsory item validation print

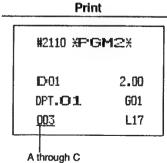
 If item entries must be validated, program corresponding departments for compulsory item validation print.
- ② SIF (Single-item finalization), SICS (Single-item cash sales), or normal sales Each individual department can be programmed as an SICS, SIF or normal department.
- ③ Four types of unit price entry You may select one of the following four types of unit price entry for each department.
 - a Open and preset
 - (b) Preset only
 - © Open only
 - d Inhibit department key

Procedure



| | | Item | Entry |
|---|--------------------------|--------------------------------|-------|
| Α | Item validation print | Compulsory | . 1 |
| | non vandadon print | Non-compulsory | 0 |
| | | SIF (Single-item finalization) | 2 |
| В | SIF/SICS/Normal | SICS (Single-item cash sales) | 1 |
| | | Normal | 0 |
| | | Open and preset | 3 |
| С | Type of unit price entry | Preset only | 2 |
| | | Open only | 1 |
| | | Inhibit | 0 |

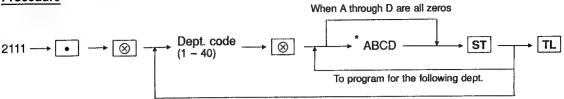




(3) Programming of tax status (PGM2 mode)

Program a tax status for each department.

Procedure



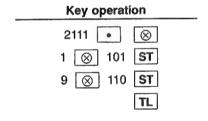
| lto m | Tax status | | | | |
|----------------|-------------------|--------------|-----------|-------|--|
| Item - | Ordinary system | Swiss system | Selection | Entry | |
| | | VAT1 | YES | 1 | |
| A | | VA!! | NO | 0 | |
| | VAT3 or TAX3 TAX3 | TAV2 | YES | 1 | |
| B VAT3 or TAX3 | 1770 | NO | 0 | | |
| | MATO or TAVO | TAX2 | YES | 1 | |
| C VAT2 or TAX2 | 1202 | NO | 0 | | |
| | VAT1 or TAX1 | TAX1 | YES | 1 | |
| D | | 1001 | NO | 0 | |

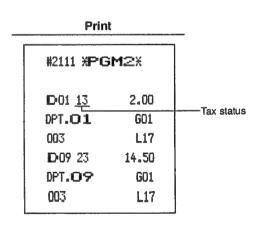
Note 1: Item A is programmable only for the Swiss tax system.

Note 2: When the Swiss tax system has been selected, one of Tax3 (B), Tax2 (C), and Tax1 (D) can be selected in combination with VAT1 (A).

Example: ABCD = 1001, 1010 or 1100

Note 3: The tax system of your machine has been factory-set to automatic VAT1 – 3. If you desire to select any of automatic tax 1 – 3, manual VAT1 – 3, manual VAT1, manual tax 1 – 3, and Swiss tax systems, contact your dealer.

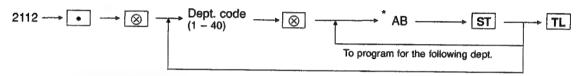




(4) Setting a limit amount (HALO) of entry (PGM2 mode)

You can set upper limit amounts (HALO: High Amount Lockout) for each department. The limit is effective for the REG-mode operations and can be overridden in the MGR mode. HALO limit is represented by two figures as follows.

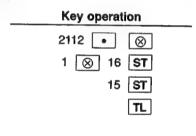
Procedure

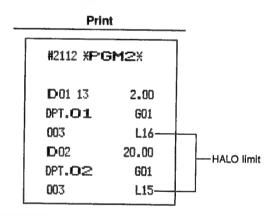


- * AB is the same as A x 10^B.
- A: Significant digit (1 through 9)
- B: 0 through 7

For example, presetting 14 (100.00) here means that amount entries up to 100.00 are allowed in REG mode. (In this case, HALO limit is 100.00.) But when you preset 17, the HALO limit is 99999.99.

Example:

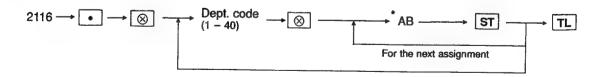




(5) Assigning departments to groups (PGM2 mode)

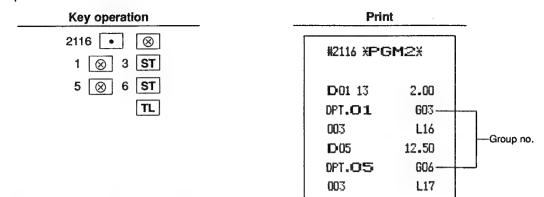
You can assign departments to a maximum of 14 groups.

Procedure



*AB: Dept. (+) 1 through 9 (groups 1 through 9)
Dept. (-) 10
Hash (+) dept. 11
Hash (-) dept. 12
Bottle Return (+) dept. 13
Bottle Return (-) dept. 14

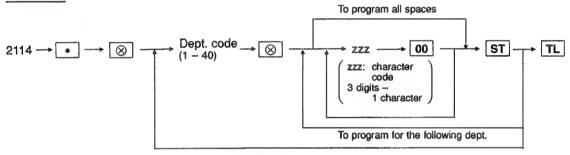
Example:



(6) Programming of department text (PGM2 mode)

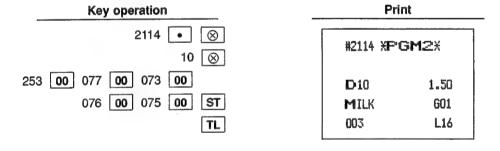
You can program a maximum of 12 characters (standard: 8 characters) for each department. Program the text by using corresponding character codes (see the alphanumeric character code table on the next page).

Procedure



Note: If you enter the DC code (Double Character Code: 253) before entering the character code, that character is printed in double size.

Example: Programming MILK (milk) for dept. 10 with the letter "M" being double size



ALPHANUMERIC CHARACTER CODE TABLE

| CODE | Char. | CODE | Char. | CODE | Char. | CODE | Char. | CODE | Char. | CODE | Char. |
|------|---------|------|-------|------|-------|------|-------|------|----------|------|-------|
| 001 | á | 033 | ļ | 065 | Α | 097 | а | 129 | 1 | 161 | 0 |
| 002 | â | 034 | 15 | 066 | В | 098 | b | 130 | 2 | 162 | i- |
| 003 | ê | 035 | # | 067 | С | 099 | С | 131 | 3 | 163 | ٦ |
| 004 | î | 036 | \$ | 068 | D | 100 | d | 132 | 4 | 164 | ~ |
| 005 | ì | 037 | % | 069 | E | 101 | е | 133 | 1/2 | 165 | |
| 006 | ſ | 038 | & | 070 | F | 102 | f | 134 | F/T | 176 | |
| 007 | ô | 039 | , | 071 | G | 103 | g | 135 | ← | 177 | Á |
| 008 | ó | 040 | (| 072 | Н | 104 | h | 136 | → | 178 | ĺ |
| 009 | û | 041 |) | 073 | I | 105 | i | 137 | S | 192 | Ç |
| 010 | ú | 042 | * | 074 | J | 106 | j | 138 | S | 193 | i |
| 011 | œ | 043 | + | 075 | К | 107 | k | 139 | 4 | 194 | Ġ |
| 012 | ű | 044 | , | 076 | L | 108 | 1 | 140 | • | 195 | ş |
| 013 | Ú | 045 | _ | 077 | М | 109 | m | 141 | F | 224 | * |
| 014 | ő | 046 | | 078 | N | 110 | n | 142 | т | 225 | § |
| 015 | ó | 047 | 1 | 079 | 0 | 111 | 0 | 143 | 1 | 226 | Ø |
| 016 | Λ | 048 | 0 | 080 | Р | 112 | р | 144 | ç | 228 | 1 |
| 017 | Ψ | 049 | 1 | 081 | Q | 113 | q | 145 | ٥ | 229 |] |
| 018 | Γ | 050 | 2 | 082 | R | 114 | r | 146 | ż | 230 | [|
| 019 | •• | 051 | 3 | 083 | S | 115 | S | 147 | ù | 231 | ** |
| 020 | Ω | 052 | 4 | 084 | Т | 116 | t | 148 | à | 232 | ä |
| 021 | Δ | 053 | 5 | 085 | U | 117 | u | 149 | Æ | 233 | ö |
| 022 | Θ | 054 | 6 | 086 | ٧ | 118 | ٧ | 150 | Ø | 234 | ü |
| 023 | [] | 055 | 7 | 087 | W | 119 | w | 151 | Å | 235 | æ |
| 024 | π | 056 | 8 | 088 | Х | 120 | x | 152 | ¤ | 236 | å |
| 025 | Σ | 057 | 9 | 089 | Υ | 121 | у | 153 | é | 237 | É |
| 026 | Υ | 058 | : | 090 | Z | 122 | z | 154 | è | 238 | ñ |
| 027 | Ф | 059 | ; | 091 | Ä | 123 | { | 155 | Pt | 253 | DC* |
| 028 | Ű | 060 | < | 092 | Ö | 124 | Ţ | 156 | i | | |
| 029 | Ú | 061 | = | 093 | Ü | 125 | } | 157 | Ñ | | |
| 030 | ő | 062 | > | 094 | ^ | 126 | β | 158 | ò | | |
| 031 | Ó | 063 | ? | 095 | | 127 | ¢ | 159 | £ | | |
| 032 | (SPACE) | 064 | @ | 096 | • | 128 | !! | 160 | ¥ | | |

*DC: Double Character Code

5. Programming for PLUs

A standard model is equipped with 400 PLUs. Each PLU requires you to program the following.

- PLU code (3 digits)
- PLU type (PLU, subdepartment, PLU/subdepartment, prohibit, or delete mode)
 - (i) If the PLU mode (i.e. automatic preset amount entry) is selected, individual PLU entries can be made by entering the assigned code and depressing the rusus key.
 - (ii) If the subdepartment mode is selected, the AMT key must be depressed after the price entry followed by the PLU code entry. The entry is finalized by the PLUsus key depressed.
 - (iii) If the PLU/subdepartment mode is selected, follow up the described entries under (i) and (ii).
 - (iv) If the prohibit mode is selected, the assigned PLU and/or subdepartment code cannot be entered. This mode does not clear the PLU/subdepartment program data.
 - (v) If the delete mode is selected, data programmed for each PLU is deleted.

Associated department

When a PLU is associated with a department, the following functions of the PLU depend on the programming for the department.

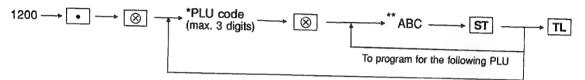
- (i) Grouping (group 1 through group 14)
- (ii) Single item cash sale/single item finalize
- (iii) HALO (for subdepartment only)
- (iv) Item validation print compulsory/non-compulsory
- Unit price (max. 6 digits)
- Base quantity for split-pricing entries (max. 2 digits)
- Sign (+/-)

The function of every PLU/subdepartment varies according to the combination of its sign and its associated department's sign as follows.

| Sign Dept. PLU/subdept. | | Function of PLU/subdepartment | |
|--------------------------|---|--|--|
| | | | |
| _ | - | Serves as a normal minus PLU/subdept. | |
| + | _ | Accepts store coupon entries, but not split-pricing entries. | |
| | 4 | Not valid; not accepted. | |

- · Tax status
- Item label (8 characters, maximum: 12 characters)

(1) Definition of PLU codes and department assignment (PGM1 or PGM2 mode) Procedure



*PLU code: 1 through 999 (free code)

**AB: Associated department code (01 through 40)

C: PLU type

To select the deletion mode, enter 4.

To select the PLU/subdept. mode, enter 3.

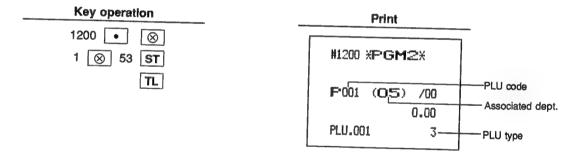
To select the PLU mode, enter 2.

To select the subdept. mode, enter 1.

To prohibit PLU/subdept., enter 0.

Note: Programming the PLU code 999 automatically terminates the programming operation.

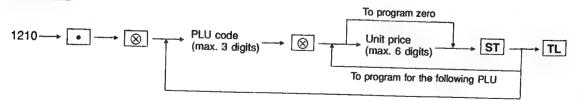
Example:



(2) Programming of unit prices (PGM1 or PGM2 mode)

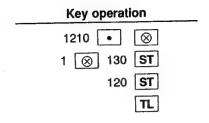
You can program a unit price for each PLU.

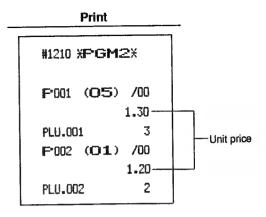
Procedure



Note: When the programming for the largest one of those PLU codes defined in job #1200 is completed with depression of the ST key, the programming operation terminates automatically. This holds true of every programming for PLUs shown below.

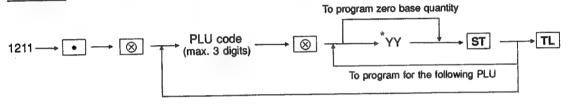
Example:





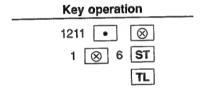
(3) Programming of base quantity (PGM1 or PGM2 mode)

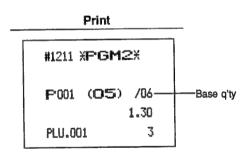
Procedure



*YY: Base quantity (two digits)

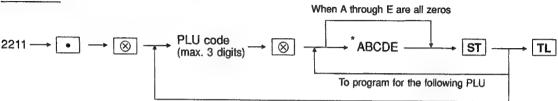
Program a base quantity for each PLU/subdepartment dedicated to split-pricing entries.





(4) Programming of sign and tax status (PGM2 mode)

Procedure



*A: Sign

To set as plus PLU, enter 0, and to set as minus PLU, enter 1.

B, C, D and E: Tax status

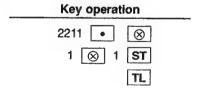
| Item | Tax status | | | | |
|------|-----------------|--------------|-----------|-------|--|
| | Ordinary system | Swiss system | Selection | Entry | |
| В | | VAT1 | YES | 1 | |
| | | | NO | 0 | |
| С | VAT3 or TAX3 | ТАХЗ | YES | 1 | |
| | | | NO | 0 | |
| D | VAT2 or TAX2 | TAX2 | YES | 1 | |
| | | | NO | 0 | |
| E | VAT1 or TAX1 | TAX1 | YES | 1 | |
| | | | NO | 0 | |

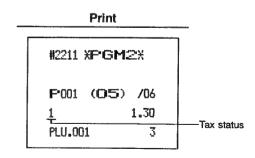
Note 1: Item B is programmable only for the Swiss tax system. If you do not select this system, enter 0.

Note 2: When the Swiss tax system has been selected, one of Tax3 (C), Tax2 (D), and Tax1 (E) can be selected in combination with VAT1 (B).

Example: BCDE = 1001, 1010 or 1100

Note 3: The tax system of your machine has been factory-set to automatic VAT1 – 3. If you desire to select any of automatic tax 1 – 3, manual VAT1 – 3, manual VAT1, manual tax 1 – 3, and Swiss tax systems, contact your dealer.

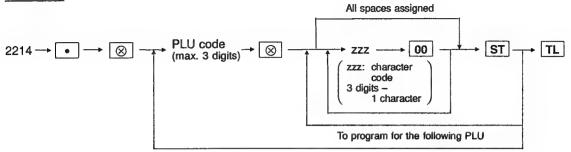




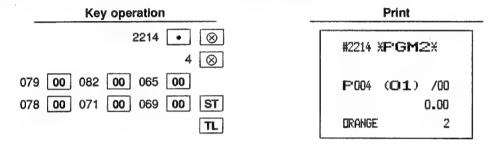
(5) Programming of PLU text (PGM2 mode)

You can program a maximum of 12 characters (standard: 8 characters) for each PLU. Refer to "Programming of department text" and "ALPHANUMERIC CHARACTER CODE TABLE" (page 20).

Procedure



Example: Programming ORANGE (orange) for PLU code 4.



6. Function parameter programming

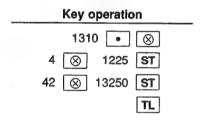
(1) Programming of premium and discount rates and currency exchange rate (PGM1 or PGM2 mode)

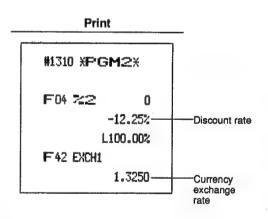
Procedure



| Function | Function no. | Percentage |
|--|------------------|--|
| % 1 % 2 % 3 % 4 | 3 4 5 6 | a maximum of 3-digit integer + 2-digit decimal (0.00 to 100.00) |
| EXCHANGE 1 EXCHANGE 2 EXCHANGE 3 | 42 43 44 | a maximum of 4-digit integer + 4-digit decimal (0.0000 to 9999.9999) |

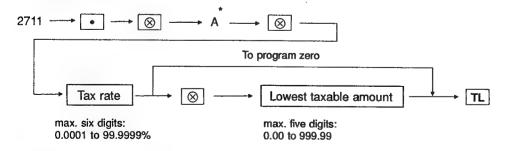
Example:





(2) Programming of tax rate (PGM2 mode)

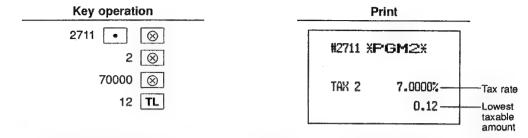
Procedure



*A: When you program a tax rate as tax rate 1, enter "1"; when you program it as tax rate 2, enter "2"; when you program it as tax rate 3, enter "3"; and when you program it as tax rate 4, enter "4".

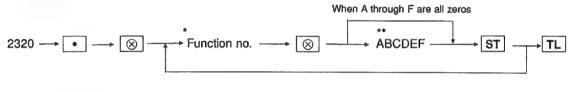
- Note 1: The lowest taxable amount is valid only when you select add on tax system. If you select VAT (value added tax) system, it is invalid.
- Note 2: If you make an incorrect entry before pressing the third \boxtimes key in programming a tax rate, cancel it with the \fbox{CL} key; and if you make an error after pressing the third \boxtimes key, cancel it with the \fbox{ST} key. Then program again from the beginning correctly.

Example:



(3) Function programming for the finalization keys (PGM2 mode)

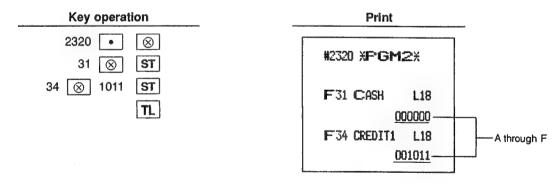
Procedure



* Function no.:

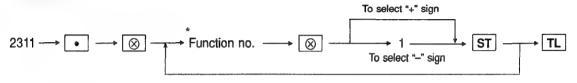
| CASH = 31 | CREDIT1 = 34 | CREDIT5 = 38 |
|-------------|--------------|--------------|
| CASH2 = 32 | CREDIT2 = 35 | CREDIT6 = 39 |
| CHEQUE = 33 | CREDIT3 = 36 | CREDIT7 = 40 |
| | CREDIT4 = 37 | CREDIT8 = 41 |

- ** A: Footer printing enable/disable = 1/0
 - B: Non-add code entry compulsory/non-compulsory = 1/0
 - C: Change disable/enable = 1/0
 - D: Validation printing compulsory/non-compulsory = 1/0
 - E: Drawer opening disable/enable = 1/0
 - F: Tendering compulsory/non-compulsory (for CASH, CASH2, and CHEQUE)= 1/0 compulsory/prohibit (for CREDIT1 to CREDIT8) = 1/0



(4) Programming of sign (for %, \bigcirc) (PGM2 mode)

Procedure

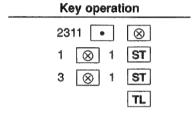


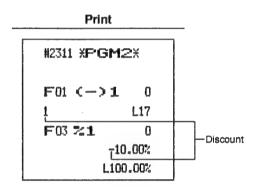
* Function no.:

$$\bigcirc$$
 1 = 1 %1 = 3

$$%2 = 4$$

Example:





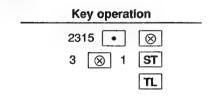
(5) Item % or subtotal % selection (PGM2 mode)

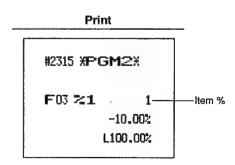
Procedure



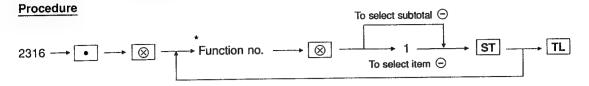
* Function no.:

$$%1 = 3$$





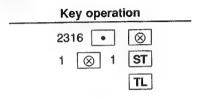
(6) Item ⊝ or subtotal ⊝ selection (PGM2 mode)

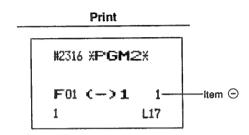


* Function no.:

 \bigcirc 1 = 1 \bigcirc 2 = 2

Example:

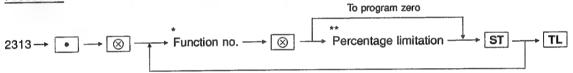




(7) Programming of HALO for percent calculation (PGM2 mode)

Your machine allows you to program the upper limit for percent calculation.

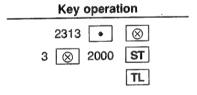
Procedure

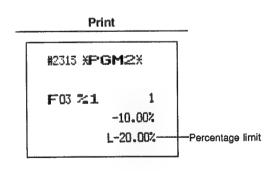


* Function no.:

$$%3 = 5$$

** Percentage limitation: 0.00 through 100.00

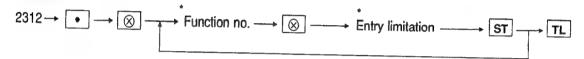




(8) Programming of HALO for deduction, received on account, and paid out (PGM2 mode)

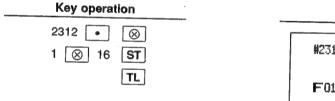
Your machine allows you to program the upper limit for deduction, received on account, and paid out.

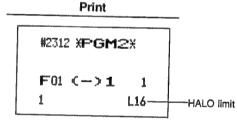
Procedure



| Function | Function no. | Entry limitation |
|----------|--------------|--|
| ⊖1 ⊝2 | 1 2 | 2 digits (AB) AB is the same as A x 10 ⁸ |
| RA | 28 | A: Significant digit (1 through 9) B: 0 through 7 (for ⊕ 1, ⊕ 2) |
| PO | 29 | : 0 through 8 (for RA, PO) |

Example:

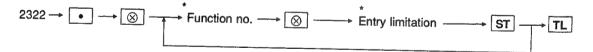




(9) Programming of HALO for the finalization keys (PGM2 mode)

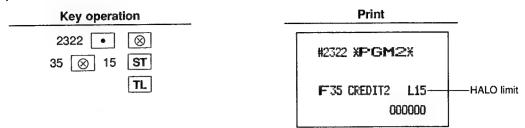
Your machine allows you to program the upper limit for the finalization keys.

Procedure



| Function | Function no. | Entry limitation |
|---|--|---|
| CASH CASH2 | 31 32 | |
| CHEQUE | 33 | |
| CREDIT 1 CREDIT 2 CREDIT 3 CREDIT 4 CREDIT 5 CREDIT 6 CREDIT 7 CREDIT 8 | 34 35 36 37 38 39 40 41 | 2 digits (AB) AB is the same as A x 10 ⁸ A: Significant digit (1 through 9) B: 0 through 8 |

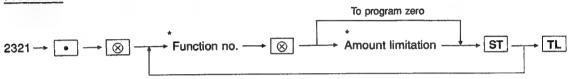




(10) Programming of HALO for cash in drawer, cheque change, and cheque cashing (PGM2 mode)

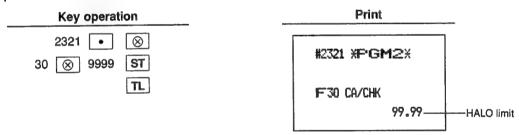
Your machine allows you to program the upper limit for cash in drawer, cheque change, and cheque cashing.

Procedure



| Function | Function no. | Amount limitation |
|-----------------------|--------------|--|
| CID (sentinel amount) | 49 | max. 9 digits 0.00 through 9999999.99 |
| Cheque change | 52 | max. 8 digits |
| Cheque cashing | 30 | 0.00 through 999999.99 |

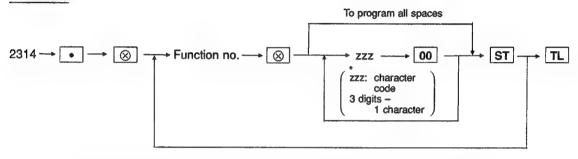




(11) Programming of function text (PGM2 mode)

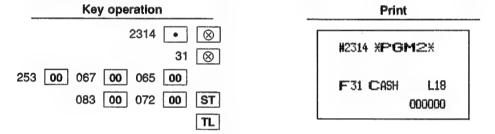
You can program a maximum of 8 characters for each function by using the "LIST OF FUNCTION TEXTS" shown on the next page.

Procedure



* Character code: See "ALPHANUMERIC CHARACTER CODE TABLE" (page 20).

Example: Programming the "CASH" for cash function with the letter "C" being double size



LIST OF FUNCTION TEXTS

| Function no. | Function | Default text |
|--------------|--------------------|---------------|
| 1 | ⊖1 | () 1 |
| .2 | ⊝ 2 | (-) 2 |
| 3 | % 1 | % 1 |
| 4 | % 2 | % 2 |
| 5 | % 3 | % 3 |
| 6 | % 4 | % 4 |
| 7 | DIFFER | DIFFER |
| 8 | TAXABLE 1 SUBTOTAL | TAX1 ST |
| 9 | TAXABLE 2 SUBTOTAL | TAX2 ST |
| 10 | TAXABLE 3 SUBTOTAL | TAX3 ST |
| 11 | TAXABLE SUBTOTAL | TAX ST |
| 12 | VAT/TAX 1 | VAT 1 |
| 13 | VAT/TAX 2 | VAT 2 |
| 14 | VAT/TAX 3 | VAT 3 |
| 15 | VAT/TAX | VAT |
| 16 | NET 1 | NET 1 |
| 17 | NET 2 | NET 2 |
| 18 | COUPON-LIKE PLU | CP PLU |
| 19 | REFUND | REFUND |
| 20 | S | \sim |
| 21 | ∽ MODE TOTAL | <u>∽</u> MODE |
| 22 | MGR ∽ | MGR ∽ |
| 23 | SUBTOTAL ∽ | SBTL ∽ |
| 24 | HASH ∽ | HASH ∽ |
| 25 | HASH REFUND | HASH RF |
| 26 | VP COUNTER | VP CNT |
| 27 | NO SALE | NO SALE |
| 28 | RA | ***RA |
| 29 | PO | ***PO |
| 30 | CHEQUE CASHING | CA/CHK |
| 31 | CASH | CASH |
| 32 | CASH 2 | CASH2 |
| 33 | CHEQUE | CHECK |
| 34 | CREDIT 1 | CREDIT1 |
| 35 | CREDIT 2 | CREDIT2 |
| | | |

| Function no. | Function | Default text |
|--------------|--------------------------|--------------|
| 36 | CREDIT 3 | CREDIT3 |
| 37 | CREDIT 4 | CREDIT4 |
| 38 | CREDIT 5 | CREDIT5 |
| 39 | CREDIT 6 | CREDIT6 |
| 40 | CREDIT 7 | CREDIT7 |
| 41 | CREDIT 8 | CREDIT8 |
| 42 | EXCHANGE 1 | EXCH1 |
| 43 | EXCHANGE 2 | EXCH2 |
| 44 | EXCHANGE 3 | EXCH3 |
| 45 | EXCHANGE 4 | EXCH4 |
| 46 | EXCHANGE 1 IS | EXCH1 IS |
| 47 | EXCHANGE 2 IS | EXCH2 IS |
| 48 | EXCHANGE 3 IS | EXCH3 IS |
| 49 | CASH IN DRAWER | ****CID |
| 50 | CASH/CHEQUE IS | CA/CH IS |
| 51 | CASH/CHEQUE IN DRAWER | CA/CH ID |
| 52 | CHEQUE/CHANGE | CHK/CG |
| 53 | CUSTOMER | GUEST |
| 54 | PAID TOTAL | PAID TL |
| 55 | DOMESTIC CURRENCY 1 | DOM.CUR1 |
| 56 | DOMESTIC CURRENCY 2 | DOM.CUR2 |
| 57 | DOMESTIC CURRENCY 3 | DOM.CUR3 |
| 58 | DOMESTIC CURRENCY 4 | DOM.CUR4 |
| 59 | CHEQUE IN DRAWER | *CH ID |
| 60 | (+)DEPT TTL | *DEPT TL |
| 61 | (-)DEPT TTL | DEPT () |
| 62 | BOTTLE DEPOSIT TTL | *BTTL TL |
| 63 | BOTTLE RETURN TTL | BTTL (-) |
| 64 | HASH(+) TTL | *HASH TL |
| 65 | HASH(-) TTL | HASH (-) |
| 66 | NET 1(TAXABLE 1 – VAT 1) | NET 1 |
| 67 | NET 2(TAXABLE 2 VAT 2) | NET 2 |
| 68 | NET 3(TAXABLE 3 – VAT 3) | NET 3 |
| 69 | NET (TAXABLE - VAT) | NET |
| 70 | SUBTOTAL | SUBTOTAL |
| 71 | MERCHANDIZE SUBTOTAL | MDSE ST |

| Function no. | Function | Default text |
|--------------|--------------------------|--------------|
| 72 | TOTAL | ***TOTAL |
| 73 | CHANGE | CHANGE |
| 74 | SALES Q'TY | ITEMS |
| 75 | COPY RECEIPT TITLE | COPY |
| 76 | AVERAGE | AVE. |
| 77 | GROUP1 | GROUP01 |
| 78 | GROUP2 | GROUP02 |
| 79 | GROUP3 | G ROUP03 |
| 80 | GROUP4 | GROUP04 |
| 81 | GROUP5 | GROUP05 |
| 82 | GROUP6 | GROUP06 |
| 83 | GROUP7 | GROUP07 |
| .84 | GROUP8 | GROUP08 |
| 85 | GROUP9 | GROUP09 |
| 86 | CCD | CCD |
| 87 | CCD DIFFER | CCD DIF. |
| 88 | CCD DIFFER TOTAL | DIF. TL |
| 89 | DEPT REPORT TITLE | DEPT |
| 90 | GROUP REPORT TITLE | GROUP |
| 91 | PLU REPORT TITLE | PLU |
| 92 | TRANSACTION REPORT TITLE | TRANS. |
| 93 | CID REPORT TITLE | TL-ID |
| 94 | CASHIER REPORT TITLE | CASHIER |
| 95 | HOURLY REPORT TITLE | HOURLY |
| 96 | TOTAL TAX | TTL TAX |
| 97 | NET WITHOUT TAX | NET |

7. Cashier programming

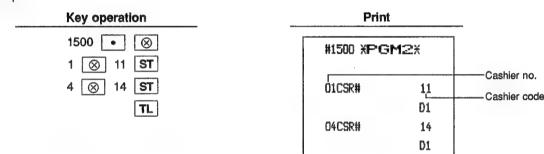
(1) Cashier code definition (PGM1 or PGM2 mode)

You can assign a cashier code to each of 4 cashiers.

Procedure



Example:



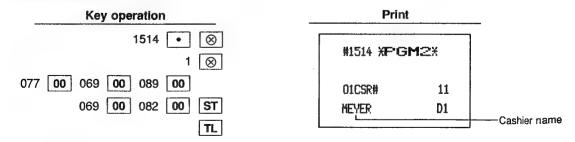
(2) Programming of the cashier name (PGM1 or PGM2 mode)

You can program a maximum of 8 characters for each cashier.

To program all spaces 1514 Cashier no. (1 to 4) Cashier no. To program all spaces zzz 00 ST TL (a zzz: character code 3 digits - 1 character)

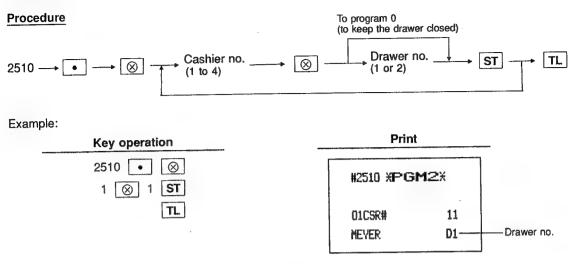
* Character code: See "ALPHANUMERIC CHARACTER CODE TABLE" (Page 20).

Example: Programming "MEYER" for cashier no. 1



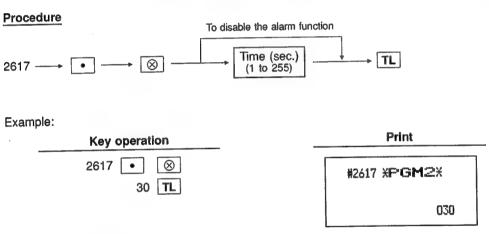
(3) Programming drawer numbers for cashiers

You can assign drawers available to individual cashiers.



8. Programming alarm length of time with drawer opening (PGM2 mode)

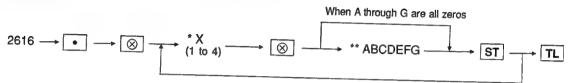
If the drawer still remains open when a specified length of time has elapsed, your machine gives the alarm.



Note: Your machine starts to monitor how long the drawer is kept open the moment the drawer is opened at the end of a transaction in the REG/VOID mode. It stops the time monitoring when a valid key (except the VP and RCT keys) is pressed for the next transaction. It restarts the time monitoring after that transaction is ended. You can stop the buzzer alarm by closing the drawer. No key entries can be made while the buzzer is sounding.

9. Programming for optional feature selection (PGM2 mode)

Procedure



* When X is 1:

**

| Item | Description | Description | |
|------|-------------------------------|----------------|-----|
| Α | OP X/Z report | Enable | 0 |
| | | Disable | 1 |
| В | Paid out in the REG mode | Enable | 0 |
| | | Disable | 1 |
| С | Refund in the REG mode | Enable | 0 |
| | | Disable | 1 |
| D | Direct void in the REG mode | Enable | 0 |
| | | Disable | 1 |
| Ε | Indirect void in the REG mode | Enable | 0 |
| | | Disable | 1 |
| F | Subtotal void in the REG mode | Enable | 0 |
| | | Disable | 1 |
| G | Refund validation printing | Non-compulsory | 0 |
| | | Compulsory | . 1 |

* When X is 2:

Entry Description Item 0 Enable The first item direct void В 1 Disable 0 Printing of the number of purchased items С 1 Yes 0 Detailed Journal print form Ε 1 Limited* 0 Enable Item validation printing F 1 Disable 0 Non-compulsory O validation printing G 1 Compulsory

A and D: Not used (Enter 0 or nothing for A and D.)

*Note: When 1 is entered ("limited" is selected), plus (+) department and plus (+) PLU/sub-dept. are not printed.

* When X is 3:

*1

| Item | Description | | Entry |
|------------------------------|---------------------------------|-----|-------|
| | | Yes | 0 |
| С | Zero skip in cashier report | No | 1 |
| | | Yes | 0 |
| D | Zero skip in transaction report | No | 1 |
| | | Yes | 0 |
| E | Zero skip in department report | No | 1 |
| | | Yes | 0 |
| F | Zero skip in PLU report | No | 1 |
| | | Yes | 0 |
| G Zero skip in hourly report | No | 1 | |

A and B: Not used (Enter 0 or nothing for A and B.)

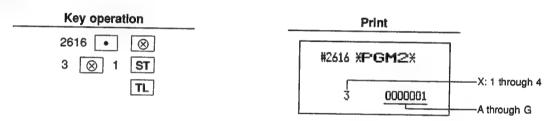
* When X is 4:

| * | * |
|---|---|
| | |

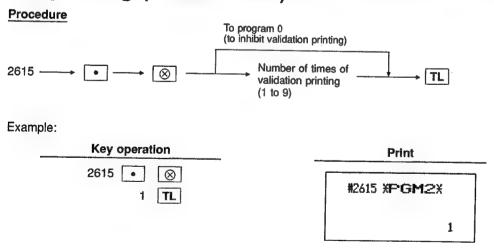
| Item | Description | | Entry |
|------|--|-----|-------|
| E | VAT amount printing on the receipt | Yes | 0 |
| | | No | 1 |
| F | Taxable amount printing on the receipt | Yes | 0 |
| | | No | 1 |
| G | Net amount printing on the receipt | Yes | 0 |
| | | No | 1 |

A, B, C and D: Not used (Enter 0 or nothing for A, B, C and D.)

Example:



10. Programming the number of times of validation printing (PGM2 mode)

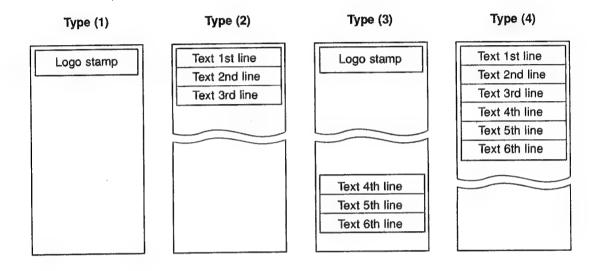


11. Logo text programming (PGM2 mode)

Your machine can print logo messages in the following four manners. The standard model provides no message line; it allows stamping only. If you need the printing of programmed messages, please consult your dealer.

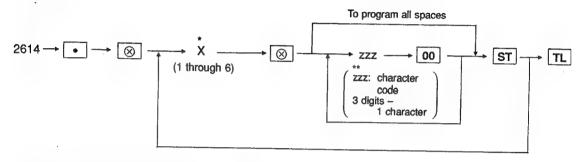
- (1) No logo message printed (logo stamp only)
- (2) 3-line logo message (header) instead of logo stamp
- (3) 3-line logo message (footer) and logo stamp
- (4) 6-line logo message (header) instead of logo stamp

Print positions on the receipt



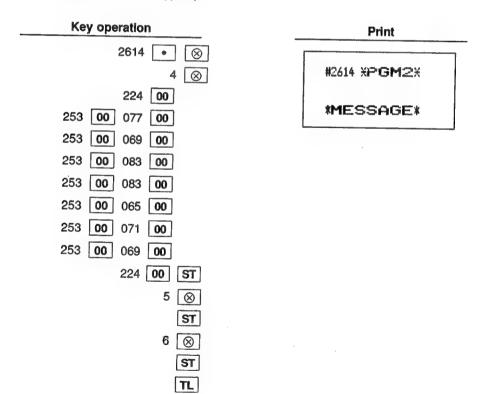
Note) Up to 18 characters can be programmed per line.

Procedure



^{*}X: Line number for logo message (1 through 6)

Example: Programming the logo message "*MESSAGE*" (Assuming you are in type 3)



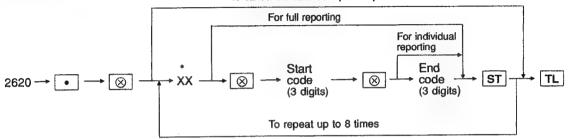
^{**}Character code: See "ALPHANUMERIC CHARACTER CODE TABLE" (page 20).

12. Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence (PGM2 mode)

Your register is equipped with the stacked report printing function that enables multiple X/Z reports to be printed in sequence with only a single request, up to 8 reports. This function continuously prints a maximum of 8 kinds of reports with a single operation.

Procedure

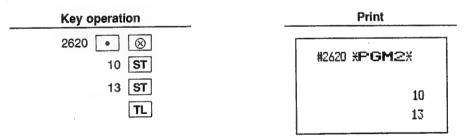
To cancel the stacked report sequence



*: Maximum 13 steps are programmable. "1 step" means the memory size used for one no-range type job no. The range type job no. needs "6 steps" (range PLU report).

* XX: Report job number

| Job no. | Report | Start code and end code |
|---------|------------------------|---|
| 00 | General report | |
| 10 | Full department report | |
| 13 | Group total report | |
| 20 | Range PLU report | Start PLU code/end PLU code (1 through 999) |
| 30 | Transaction report | |
| 31 | Total in drawer report | |
| 50 | Full cashier report | |
| 60 | Hourly report | |



13. Reading stored programs

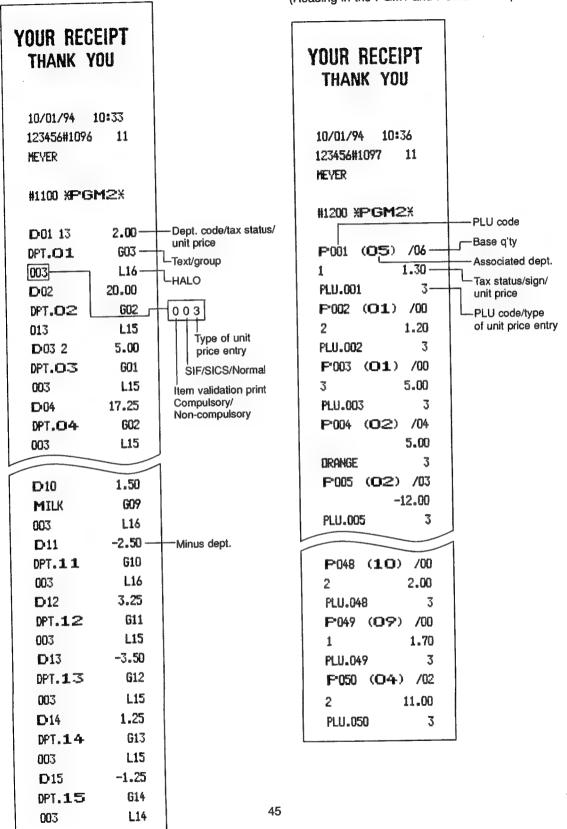
Your machine allows you to read every program stored in the PGM1 and PGM2 modes.

(1) Program details and procedures for their reading

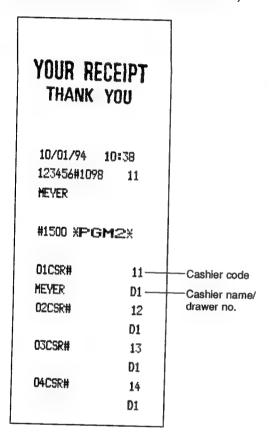
| Program for: | Mode switch position | Job code no. | Procedure | Related job code nos. |
|---------------------------|----------------------|-----------------|--|--|
| ① Departments | PGM2 or PGM1 | 1100 | For reading all departments | 1110, 2110, 2111, 2112, 2114, 2116 |
| ② PLUs/ subdepartments | PGM2 or PGM1 | 1200 | For reading all PLUs Start PLU no. For individual reading End PLU no. TL | 1200, 1210, 1211, 2211, 2214 |
| ③ Cashiers | PGM2 or PGM1 | 1500 | → 1500 — ➤ TL | 1500, 1514, 2510 |
| Miscellaneous presets | PGM2 or PGM1 | 2600 | → 2600 → 🚫 — TL | 2614, 2615, 2616, 2617, 2620 |
| ⑤ Function preset | PGM2 or PGM1 | 1300 | → 1300 (No. 1300 | 1310, 2311, 2312, 2313, 2314, 2315, 2316, 2320, 2321, 2322 |
| 6 Tax rate | PGM2 | 2700 | → 2700 → 🛞 — TL | 2711 |
| 7 Auto key preset | PGM2 | 2900 | → 2900 → 🛞 — TL | 2900 |

(2) Sample printouts

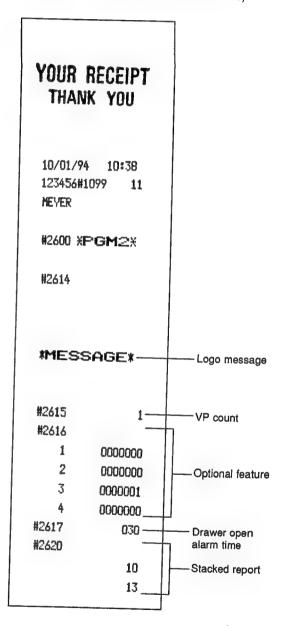
- Reading of programmed items for departments (Reading in the PGM1 and PGM2 modes)
- ② Reading of programmed items for PLUs/subdepartments (Reading in the PGM1 and PGM2 modes)



® Reading of programmed items for cashiers (Reading in the PGM1 and PGM2 modes)



Reading of miscellaneous presets
 (Reading in the PGM1 and PGM2 modes)



⑤ Reading of programmed items for functions (Reading in the PGM1 and PGM2 modes)

YOUR RECEIPT THANK YOU

10/01/94 10:40 123456#1100 11 MEYER

#1300 XPGM2X

F01 (->1 1
1 146
F02 (->2 0
1 17
F03 %1 1
-10.00%
L-20.00%
F04 %2 0
12.25%
L100.00%

L100.6
F07 DIFFER
F08 TAX1 ST
F09 TAX2 ST
F10 TAX3 ST
F12 VAT 1
F13 VAT 2
F14 VAT 3
F16 NET1
F17 NET2
F18 CP PLU
F19 REFUND
F20 45
F21 42 MODE
F22 MGR 46

F23 SBTL 0

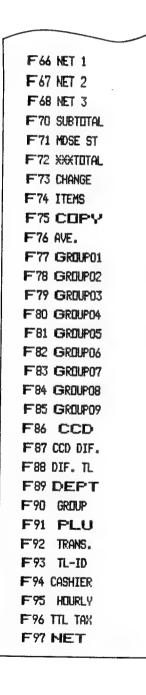
F 24 HASH W

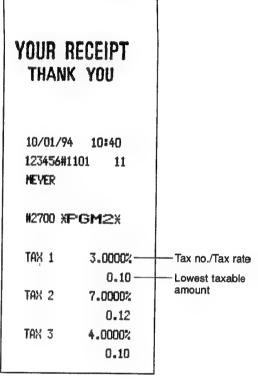
F25 HASH RF

FF26 VP CNT IF 27 NO SALE F-28 XXXRA L17 F29 XXXPD L17 F30 CA/CHK 99.99 L18 F31 CASH 000000 F 33 CHECK L18 000000 F34 CREDIT1 L18 001011 F35 CREDIT2 L15 000000 F 42 EXCH1 1.3250 F 43 EXCH2 0.5000 F 46 EXCH1 IS F47 EXCH2 IS F49 XXXXCID 9999999.99 F'50 CA/CH IS F51 CA/CH ID FF52 CHK/CG 999999.99 F53 GUEST F 54 PAID TL FF55 DDM.CUR1 F56 DOM.CUR2 F 59 XCH ID F 60 XDEPT TL F61 DEPT(-) F62 XBTTL TL F63 BTTL(-) F 64 XHASH TL F 65 HASH(-)

To be continued on the next page

® Reading of programmed tax rate (Reading in the PGM2 mode)





REGISTRATIONS

* Preparations for entries

- (1) Put the operator key in the mode switch and turn it to the REG position.
- (2) Check to see if your register has both the journal and receipt rolls. If your register lacks these rolls or has low rolls, install new paper rolls or replace the old rolls with new ones according to "4. Installing and removing the paper roll" under "OPERATOR MAINTENANCE".

* Error warning

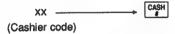
In the following examples, your register will go into an error state accompanied with a warning beep and the error message "E" on the display. Clear the error state by pressing the CL key and take a proper action.

- (1) When you enter an over 16-digit number (entry limit overflow):
 - · Cancel the entry and re-enter a correct number.
- (2) When you make an error in key operation:
 - · Clear the error and operate keys correctly.
- (3) When you make an entry beyond a programmed amount entry limit:
 - Check to see if the entered amount is correct. If it is correct, it can be rung up in the MGR mode.
 Contact your manager.
- (4) When a subtotal exceeds eight digits:
 - Clear the subtotal and press the TL, CA2, CH, CR1 ~ CR8 or EX1 ~ EX4 key to finalize the transaction.

1. Cashier assignment

Cashiers can be assigned by entering a cashier code programmed in job #1500. Prior to item entry, the cashier can enter his or her cashier code for every transaction. However, this may not be necessary where the same cashier code is used in the next transaction.

Procedure



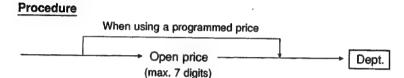
Note: When the CASH key is pressed without entering any cashier code, a currently specified cashier code is displayed.

2. Item entries

(1) Single item entries

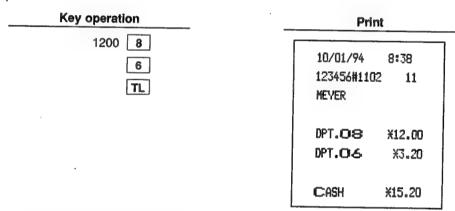
Entries into departments

Enter a unit price and press a department key. If you use a programmed unit price, press a department key only.



Open price: Less than a programmed upper limit

Example:



Note: When those departments for which the unit price has been programmed as 0 (zero) are entered by using preset unit price, the quantity alone is added.

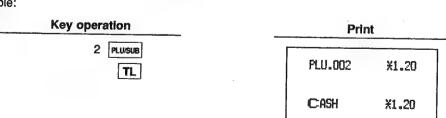
PLU entries

Enter a PLU number and press the PLUSUB key.

Procedure



Example:

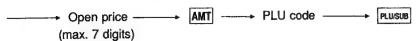


Note: When those PLUs for which the unit price has been programmed as 0 (zero) are entered, the quantity alone is added.

Subdepartment (open PLU) entries

Follow this sequence:





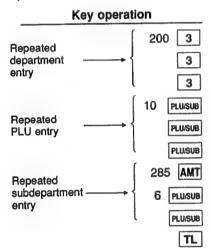
Open price: Less than a programmed upper limit

Example:



(2) Repeat entries

You can use this function for entering two or more same items.



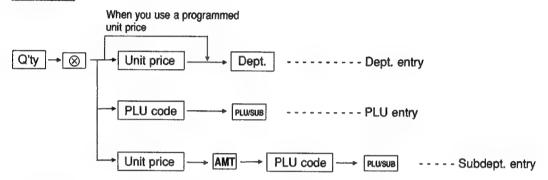
| | Print | | |
|---|---------|---------|---|
| - | | | 1 |
| | DPT.O3 | ¥2.00 | ١ |
| | DPT.O3 | X2.00 | |
| | DPT.O3 | ¥2.00 | |
| | PLU.010 | X30.00 | |
| | PLU-010 | X20°00 | ١ |
| | PLU-010 | X30.00 | l |
| | PLU-006 | ¥2.85 | |
| | PLU-006 | ¥2.85 | |
| | | | ١ |
| | CASH | X101.70 | |
| |] | | |

(3) Multiplication entries

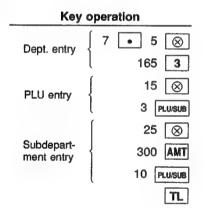
Use this feature when you need to enter two or more same items.

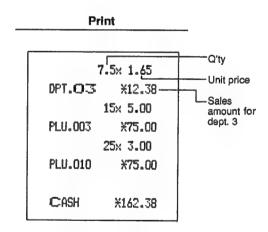
This feature helps when you enter a large quantity of items or need to enter quantities that contain decimals.

Procedure



- Q'ty: up to seven digits (4-digit integer + 3-digit decimal)
- Unit price: less than a programmed upper limit (max. 999999)
- · Q'ty x unit price: up to seven digits

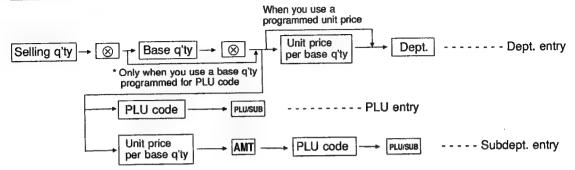




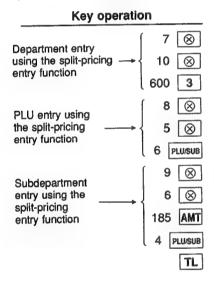
(4) Split-pricing entries

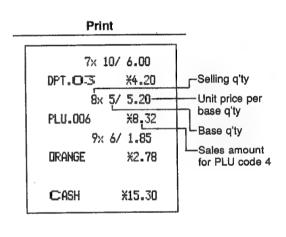
You will use this function when your customer wants to purchase more or less than the base quantity of a loose item.

Procedure



- Selling quantity: up to seven digits (4-digit integer + 3- digit decimal)
- Base quantity: up to two digits (integer)
- * Note: You can't skip the base quantity entry when you enter department items.





(5) Single item cash sale (SICS)/single item finalize (SIF) entries

① SICS entries

- This function is useful when a sale is for only one item and is for cash; such as a pack of cigarettes.
 This function is applicable only to those departments that have been set for SICS or to their associated PLUs.
- The transaction is finalized and the drawer opens as soon as you press the department key or PLUISUB key.

Example:

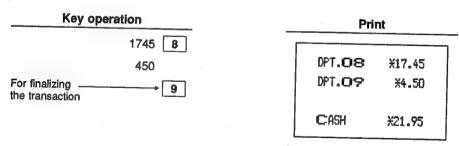


Note: If a ring-up to a department or PLU set for SICS follows the ones to departments or PLUs not set for SICS, it does not finalize and results in a normal sale.

② SIF entries

- If a ring-up to a department or PLU/subdepartment set for SIF follows the ones to departments or PLUs/subdepartments not set for SIF, the transaction is finalized immediately as a cash sale.
- Like the SICS function, this function is available for single-item cash settlement.

Example:



3. Display of subtotals

Press the ST key at any point during a transaction. Then the machine state symbol " " and the subtotal will appear in the display and the "ST" lamp will light up.

4. Finalization of transaction

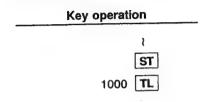
(1) Cash or cheque tendering

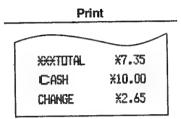
Press the ST key to get a subtotal, enter the amount tendered by your customer, then press the TL key if it is a cash tender or press the CH key if it is a cheque tender.

When the amount tendered is greater than that amount of the sale, your register will show the change due amount. Otherwise your register will show a deficit.

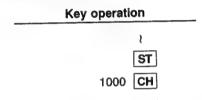
Example:

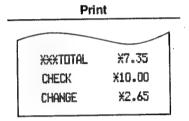
Cash tendering



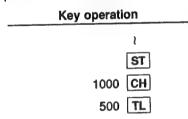


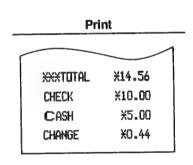
• Cheque tendering





(2) Mixed tendering (cheque + cash)

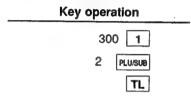


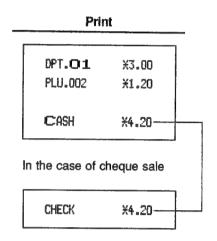


(3) Cash or cheque sale that does not need a tender amount entry

Enter items and press the TL key if it is a cash sale or press the CH key if it is a cheque sale. Your register will display the total sale amount.

Example:

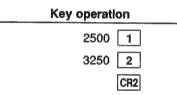


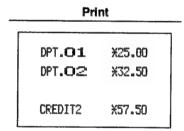


(4) Credit sale

Enter items and press the credit key.

Example:





(5) Mixed-tender sale (cash or cheque tendering + credit sale)

Example:



Note: For cheque tendering, press the CH key instead of the TL key.

5. Computation of VAT (Value Added Tax)/tax

The machine may be programmed for the following six tax systems by your dealer.

- 1 Automatic VAT 1, 2, 3 system (Automatic operation method using programmed percentages)
 This system, at settlement, calculates VAT for taxable 1, taxable 2, and taxable 3 subtotals by using the corresponding programmed percentages.
- 2 Automatic tax 1, 2, 3 system (Automatic operation method using programmed percentages)

 This system, at settlement, calculates taxes for taxable 1, taxable 2, and taxable 3 subtotals by using the corresponding programmed percentages, and also adds the calculated taxes to those subtotals, respectively.
- (3) Manual VAT 1, 2, 3 system (Manual entry method using programmed percentages)

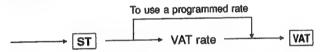
Procedure

 \longrightarrow ST \longrightarrow VAT

This system provides the VAT calculation for taxable 1, taxable 2, and taxable 3 subtotals. This calculation is performed using the corresponding programmed percentages when the VAT key is pressed just after the ST key.

(4) Manual VAT 1 system (Manual entry method for subtotals that uses VAT 1 preset percentages)

Procedure



This system enables the VAT calculation for the then subtotal. This calculation is performed using the VAT 1 preset percentages when the VAT key is pressed just after the ST key. For this system, the keyed-in tax rate can be used.

(5) Manual tax 1, 2, 3 system (Manual entry method using programmed percentages)

Procedure



This system provides the tax calculation for taxable 1, taxable 2, and taxable 3 subtotals. This calculation is performed using the corresponding programmed percentages when the VAT key is pressed just after the ST key. After this calculation, you must finalize the transaction.

(6) Automatic tax 1, 2, 3 system and VAT 1 system for Spain and Switzerland

In the case of Spain, these specific tax systems allow the calculation of amounts to be paid out for three types of taxes applicable in this country. These taxes are automatically added to the resulting subtotals 1–3. Moreover, in the case of Switzerland, the amount of value added tax – included in the resulting subtotal – is calculated separately.

In both cases the calculation is based on respective preprogrammed percentages.

Example:

| Key | operation |
|---|-----------------|
| (When the manual VAT 1, 2, 3 system is selected.) | 550 8 ST VAT TL |

| | FIII | IL | |
|----|------------------|----------------|--|
| | PT.08 UBTOTAL | ¥5.50 ¥5.50 | |
| Ti | AX1 ST | X5.50 | |
| V | AT 1 | X0.16 | |
| H | ET 1 | X5.34 | |
| C | CASH | ¥5.50 | |

6. Auxiliary entries

(1) Percent calculations (premium or discount)

- Your register provides the percent calculation for the subtotal of each item entry.
- Percentage: 0.01 to 100.00% (Less than a programmed upper limit)
- 1) Percent calculation for item entries

Example:

| Key o | peration |
|------------------------------------|-----------|
| (When a discount of | 800 1 |
| 10% is programmed for the _%_ key) | % |
| | 3 PLU/SUB |
| 7 • | 5 % |
| | TL |

| Print Print | | |
|----------------|---------|--|
| DPT. 01 | ×8.00 | |
| | -10.00% | |
| %1 | -0.80 | |
| PLU.003 | ¥5.00 | |
| | -7.5% | |
| 741 | -0.28 | |
| CASH | ¥11.82 | |

2) Percent calculation for the subtotal

| .xampie. | | |
|--|-----------------------|--|
| Key o | peration | |
| (When a premium of 10% is programmed for the [%2] key) | 4 🛞 140 6 220 7 | |
| | ST %2 TL | |

| Print | | | |
|----------|---------|--|--|
| | 4× 1.40 | | |
| DPT.06 | ¥5.60 | | |
| DPT.07 | ¥2.20 | | |
| DPT.07 | ¥2.20 | | |
| SUBTOTAL | X10.00 | | |
| | 10.00% | | |
| 7.2 | ¥1.00 | | |
| | | | |
| CASH | X11.00 | | |

(2) Deduction

Your register allows you to deduct a certain amount less than a programmed upper limit after the entry of an item or the computation of a subtotal.

1) Deduction for item entries

Example:

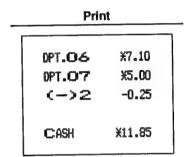
| Key operation | | |
|---------------|--------|--|
| | 850 8 | |
| | 50 ⊖ | |
| | 4700 3 | |
| | 100 🕣 | |
| | TL | |
| | | |

| Print | | |
|--------|-----------------|--|
| DPT.O8 | ¥8.50 -0.50 | |
| DPT.03 | ¥47.00 -1.00 | |
| CASH | X54.00 | |

2) Deduction for the subtotal

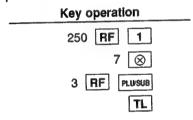
Example:

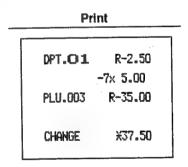
| iipio. | • | |
|--------|---------------|--|
| | Key operation | |
| | 710 6 | |
| | 500 7 | |
| | ST | |
| | 25 ⊝2 | |
| | TL | |
| | | |



(3) Refund entries

For refund entry, press the RF key first and then the corresponding department key or the PLUSUB key. Repeated or multiplied refund entries are also possible.





(4) Printing of non-add code numbers

Enter a non-add code number such as a customer code number and credit card number within a maximum of 16 digits and press the */THE key. The entry of a non-add code number can be made at any point during the entry of a sale. Your register will print it at once.

Example:

| Key operation | Print |
|---------------|-----------------------------------|
| 1230 | #00000000001230 DPT.O:5 X15.00 |
| | CASH X15.00 |

7. Payment treatment

(1) Currency exchange

The register allows payment registrations in a maximum of four kinds of foreign currency.

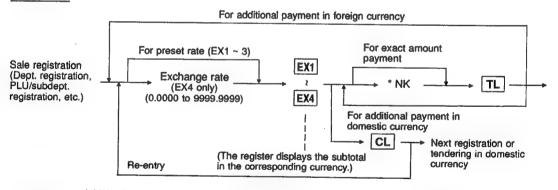
EX1 to EX3 : Currency exchange can only be achieved by using a preset exchange rate when these keys

are used.

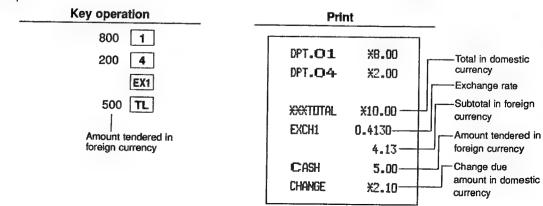
EX4 : Currency exchange can only be achieved by using a keyboarded exchange rate when this key is used.

The EX2 to EX4 keys are options.

Procedure

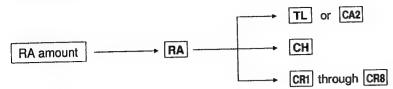


* NK: Amount tendered in the corresponding currency (max. 8 digits)

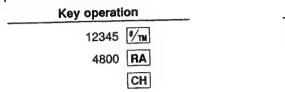


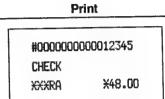
(2) Received on account entries

Procedure



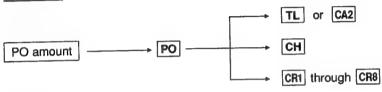
Example:

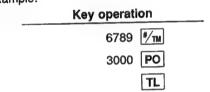


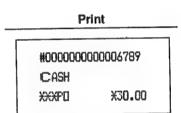


(3) Paid out entries

Procedure







| (4) No sale (excha | inge) |
|--------------------|-------|
|--------------------|-------|

Simply press the NS key without any entry. The drawer will open and the machine will print the "NO SALE" on both the journal and the receipt.

#0000000000004567 NO SALE

(5) Cashing a cheque

You can cash a cheque. Enter an amount, then press the CH key.

| Key operation | Pr | int | |
|---------------|--------|--------|---|
| 2000 CH | CA/CHK | ¥20.00 | 7 |

CORRECTION

1. Correction of the last entry (direct void)

If you make any incorrect department, PLU/subdepartment, percentage, deduction, or refund entry by mistake, you can void this incorrect entry by pressing the key immediately after the incorrect entry.

Example:

| Key operation |
|---------------|
| 130 1 |
| S |
| 2 PLU/SUB |
| S |
| 600 3 |
| % |
| S |
| 328 4 |
| 28 🕞 |
| S |
| TL |

| Print | | | |
|-----------|---|--------|--|
| | | | |
| DPT.O1 | X1.30 | | |
| DPT.O1 | w-1.30 | | |
| PLU-002 | ¥1.20 | l | |
| PLU.002 | w-1.20 | ١ | |
| DPT.O3 | ¥6.00 | ١ | |
| | -10.00% | | |
| %1 | -0.60 | l | |
| %1 | w¥0.60 | | |
| DFT.04 | ¥3.28 | I | |
| (->1 | -0.28 | ١ | |
| (->1 | ωX0.28 | | |
| | | | |
| CASH | X9.28 | | |
| | DPT.O1 DPT.O1 PLU.002 PLU.002 DPT.O3 %1 %1 DPT.O4 (->1 (->1 | DPT.O1 | |

2. Correction of the next-to-last or earlier entries (indirect void)

You can void any incorrect department, PLU/subdepartment, or refund entry made during a transaction by specifying it if you find it before finalizing the transaction (before making an amount tendered entry).

| Key operation |
|---------------|
| 130 1 |
| 1 PLU/SUB |
| 1750 7 |
| 1 PLWSUB |
| 130 🖒 🚺 |
| TL |

| Print | | |
|-------|----------------|--------|
| | 0PT. O1 | ¥1.30 |
| | PLU.001 | *1.30 |
| | DPT.07 | ¥17.50 |
| | PLU.001 | w-1.30 |
| | DPT.O1 | ø−1.30 |
| | | |
| | CASH | ¥17.50 |

3. Correction of the subtotal (subtotal void)

This function allows you to void an entire transaction that has not yet been finalized. When subtotal void is executed, the transaction is aborted and the register issues a receipt.

Example:

| Key operation | Print | |
|---|--|--|
| 130 1 1755 2 10 PLUSUB 15 PLUSUB 825 7 ST | PLU.010 3 PLU.015 PPT.07 SUBTOTAL 3 | X1.30 £17.55 £30.00 X8.50 X8.25 £65.60 -65.60 X0.00 |

4. Handling of errors found after receipt issuance

If you (as a cashier) find any errors after the entry of a whole transaction has been completed or while an amount tendered entry is being made, you cannot void them. Only your manager can do (refer to "COR-RECTION AFTER FINALIZING A TRANSACTION"). You will take this step.

- (1) If you are making an amount tendered entry, finalize the transaction.
- (2) Make correct entries from the beginning.
- (3) Hand the incorrect receipt to your manager for its cancellation.

SELECTION OF RECEIPT ISSUANCE

Your register usually prints on the journal and receipt in the REG mode (This is the "Receipt ON" state). When you want the register to permit printing on the journal alone without receipt, turn the mode switch to the OP X/Z position and press the RCPT key. The RCPT OFF lamp will light up (This is the "Receipt OFF" state). Then turn the mode switch to the "REG" position and start registration.

If you want the register to restore the "Receipt ON" state, press the RCPT Key in the OP X/Z mode. The RCPT OFF lamp will go out.

Note: Your register will print receipts regardless of the Receipt ON/OFF state except when the mode switch is in the "REG" position. This means that the receipt roll must be installed even when the register is in the "Receipt OFF" state.

VARIOUS PRINTING

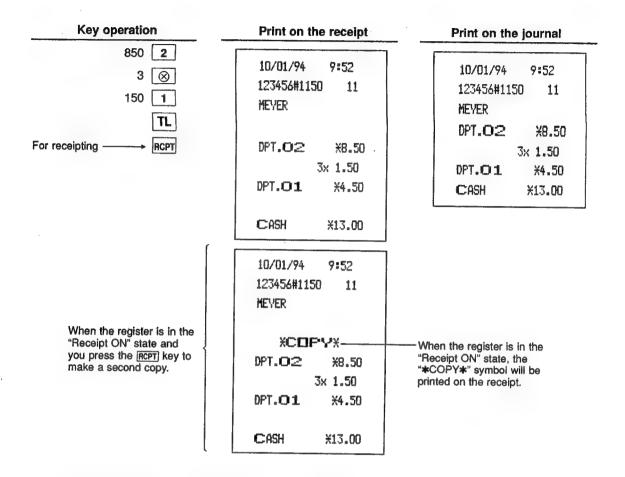
1. Copy receipt printing

If your customer wants receipt after you have finalized a transaction in the "Receipt OFF" state (no receipting), press the RCPT key.

Your register can print copy receipts.

Either full item printing or total amount printing can be selected for a copy receipt. (For details, contact your dealer.)

Example: Printing a copy receipt after making the entries shown on the next page with the machine in the "Receipt OFF" state. (See the next page.)

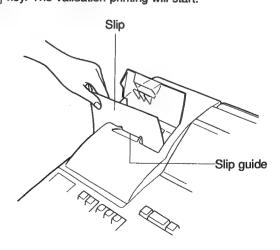


2. Validation printing function

The machine can perform validation printing.

2-1. Validation slip setting and printing

- (1) Insert the slip, with its printed face to the front of the machine, into the slip guide. Make sure the slip is pushed in enough deep and fully to the right.
- (2) Now press the VP key. The validation printing will start.



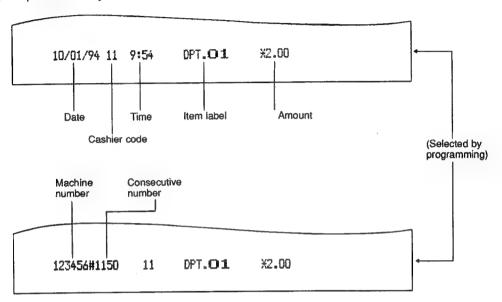
Note: Programmed compulsory validation printing can be overridden by performing the following operation. If you need this function, consult your dealer.

(1) Turn the mode switch to the "MGR" position.

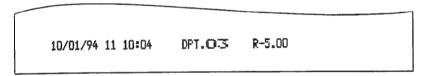
2-2. The validation printing can occur just after the following registrations

(1) Validation printing of item entries

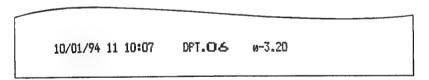
① Department entry



② Refund entry

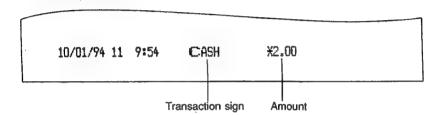


(3) Direct or indirect void



Note: Other item entries can also be printed. For details, consult your local dealer.

(2) Validation printing after the finalization of a transaction



| | | Transaction signs (programmable) |
|-----|--|----------------------------------|
| 1 | After completion of cash sale entry When a change calculation occurs When no change calculation occurs | *** TOTAL CASH |
| 2 | After completion of cheque sale entry When a change calculation occurs When no change calculation occurs | *** TOTAL CHECK |
| 3 | After completion of credit sale entry At only credit sale | EDIT1 through CREDIT8 *** TOTAL |
| 4 | After completion of PO entry | * * * PO |
| (5) | After completion of RA entry | ***RA |

2-3. Validation slip specification

Make validation slips according to the following specification.

The use of any slips other than specified causes the printer to malfunction.

(1) Type of slip

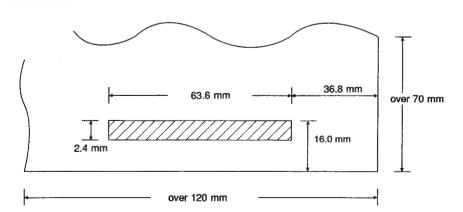
Normal paper, pressure-sensitive paper, or carbon paper

(2) Dimensions of slip

Size:

120 mm or wider, 70 mm or longer

Thickness: 0.07 - 0.15 mm



ERLAPPED CASHIER

This function allows to switch from one cashier to another and to interrupt the first cashier's entry. So the second cashier can do his entry in this mode.

For actual use of this function, contact your dealer.

Cashier 1: Entry started

Cashier 2: Cashier change (1 to 2), interrupt initiated

Cashier 2: Transaction finished (2)

Cashier 1: Cashier change (2 to 1), entry restarted

Note 1: The overlapped cashier entry is not effective while the tendering sale is going on.

Note 2: If any cashier is still making an entry (or has not finalized the transaction yet), the machine does not run in any mode other than REG and MGR, and no X/Z reports can be printed. The corresponding cashier number(s) is displayed at this time.

| Key operation | Comments |
|--|---|
| (1) Cashier 1 is assigned. (1 CASH) 100 1 360 3 | The entry by cashier 1 is started. |
| (2) Cashier 2 is assigned. 2 CASH 3 ⊗ 150 2 | The entry by cashier 2 is started. (The entry by cashier 1 is interrupted.) |
| TL | The transaction by cashier 2 is finalized. |
| (3) Cashier 1 is assigned. 1 CASH 100 1 300 3 | The entry by cashier 1 is restarted. |
| TL | The transaction by cashier 1 is finalized. |

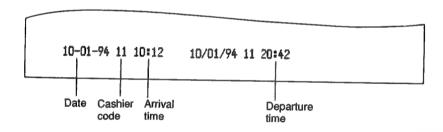
PRINTING OF THE EMPLOYEE ARRIVAL AND DEPARTURE TIMES

The register allows the operator to print the employee arrival and departure times, using the validation printing function.

- (1) Turn the mode switch to the "OP X/Z" position.
- (2) Put a card into the paper chute and perform the following key operation.
 - Arrival time (printed on the receipt)
 Numeric key 1

 VP

Sample printout



MANAGER MODE

The manager mode is used when management decisions must be made concerning register entry, for example, for overriding limitations and void-mode operation.

You can also do all normal cash register operations in this mode.

To enter the manager mode, insert the manager key into the mode switch and turn it to the MGR position.

CORRECTION AFTER FINALIZING A TRANSACTION (AFTER GENERATING A RECEIPT)

When the manager needs to void incorrect entries that are found after finalizing a transaction or cannot be corrected by direct or indirect void, follow this procedure.

- (1) Put the manager or submanager key in the mode switch and turn it to the MGR position.
- (2) Press the key to put your register in the VOID mode.
- (3) Repeat the entries that are recorded on an incorrect receipt.
 This will result in all data for the incorrect transaction being removed from the machine's memory and the addition of the voided amounts to the VOID mode totalizer.

Incorrect receipt

| 10/01/94 123456#1156 MEYER | |
|----------------------------------|-----------------|
| DPT.06 | %3.20 %10.00 |
| CASH | *13.20 |

Cancellation receipt

| 10/01/94 123456#1150 MEYER | | |
|----------------------------------|--------|--|
| X42 MODE X | | |
| DPT.06 | ¥3.20 | |
| DPT.07 | X10.00 | |
| CASH | ¥13.20 | |

Note: Your machine retrieves the normal MGR mode whenever a transaction is canceled (i.e. finalized in the VOID mode). To void additional transactions repeat steps (2) and (3) above.

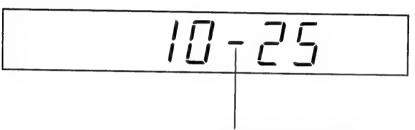
TIME DISPLAY AND AUTOMATIC UPDATING OF THE DATE

Time display

When you need a time display, press the TTM key in the OP X/Z, REG, MGR, X1/Z1 or X2/Z2 mode after preceding transaction or operation is finalized.

The time display disappears as soon as you press the CL key or begin the subsequent entry.

Sample display of 10:25



This bar flashes every 1 second.

Automatic updating of the date

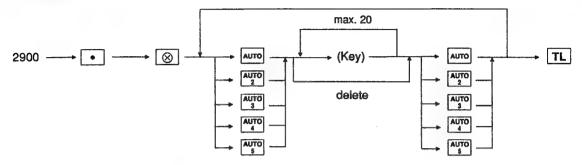
Once the internal clock unit is started at the correct time, it continues to run as long as the built-in battery is charged, and updates the date (day, month, year) properly.

AUTOMATIC KEY FUNCTION

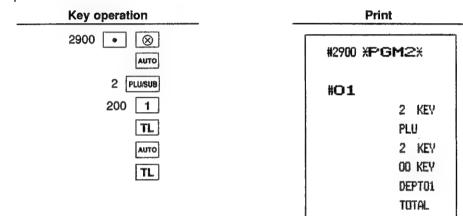
· Programming the key sequence

You can program the key sequence data for the AUTO key in the X2/Z2 mode.

Procedure



Example:



Automatic key entries

When the works as same as the programmed key-sequence is entered. Operating modes that allow works as same as the programmed key-sequence is entered.

- REG / MGR / VOID (You can use this function at any time.)
- OP X/Z / X1/Z1 / X2/Z2 (You can use this function when no operation has been done.)

Example:

| Key operation | | Print | |
|-----------------|---------------------------|----------------|-------|
| In the REG mode | PLU.002 DPT. O1 | X1.20 X2.00 | |
| | | CASH | ¥3.20 |

READING (X) AND RESETTING (Z) OF SALES TOTALS

- Use the reading function (X) when you need to take a reading of sales information entered since the last resetting. You can take this reading any number of times. It does not affect the register's memory.
- Use the resetting function (Z) when you need to clear the register's memory.
 Resetting prints all sales information and clears the entire memory except for the GT1 through GT3, reset count, and consecutive number.
- X and Z reports are printed on both the receipt and the journal.

Summary of reading (X) and resetting (Z) reports and the key operations to obtain the reports

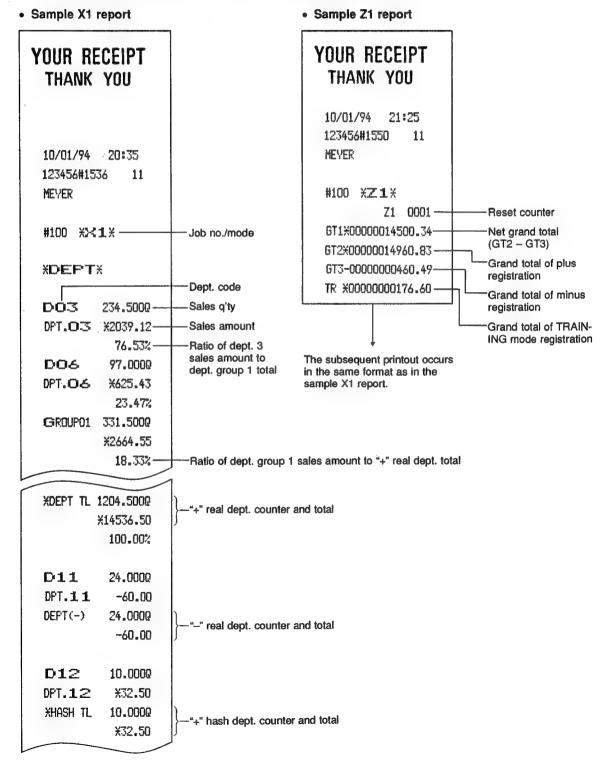
X1 and Z1 reports: Daily sales reports
X2 and Z2 reports: Periodic (monthly) consolidation reports

| item | | switch sition | Job | Key operation |
|---------------------------|--------|------------------|-----|--|
| | X1/Z1 | X2/Z2 | | |
| General report | X1, Z1 | X1, Z1 | 100 | Reading |
| (Full item report) | | X2, Z2 | 200 | 100 Sesetting STL |
| Full cashier report | X1, Z1 | X1, Z1 | 150 | Reading |
| | | X2, Z2 | 250 | 250 Resetting |
| | X1, Z1 | X1, Z1 | 151 | Reading |
| Individual cashier report | | X2, Z2 | 251 | 151 |
| | | X/Z> Z | 51 | Fleading State of the state of |
| Full department | X1 | X1 | 110 | 110 — → [⊗] — → [TL] |
| report | | X2 | 210 | 210 |
| Individual group | X1 | X1 | 112 | 112 |
| report of dept. | | X2 | 212 | 212 |
| Group total report | X1 | X1 | 113 | 113 |
| | | X2 | 213 | 213 |
| Total in drawer report | х | 1 | 131 | 131 ──→ TL |
| Transaction report | X1 | X1 | 130 | 130 — → ▼ TL |
| | | X2 | 230 | 230 |

| Item | | switch ition | Job code | Key operation |
|--------------------------------|--------|-----------------|-------------|---|
| | X1/Z1 | X2/Z2 | code | |
| PLU report by designated range | X1, Z1 | | 120 | Full PLU report Reading TL Start PLU code Resetting End PLU code TL |
| PLU report by assigned dept. | X1 | | 121 | 121 — |
| Hourly report | X1, Z1 | | 160 | Reading 160 Resetting |
| Charles due nort | X1, Z1 | X1, Z1 | 190 | Reading |
| Stacked report | | X2, Z2 | 290 | 190 |

— SAMPLE REPORTS —

1. General report (Full item report)



To be continued on the next page

| D13 | 3.0000 | | 160 | REG-mode item void |
|------------|------------------|---------------------------------------|-----------------------|-------------------------------------|
| DPT.13 | -10.50 | | 80.83 % | counter and total |
| HASH(-) | 3.0000 | }"-" hash dept. | MDDE 50 | Void-mode transaction |
| | -10.50 | counter and total | X86.20 | counter and total |
| | | | MGR 0 90 | Manager weid item |
| D14 | 6.000Q | | *86.20 | Manager void item counter and total |
| DPT.14 | ¥7.50 | | SBTL 0 30 | Outstand solid counter |
| XBTTL TL | 6.0000 | | ¥132.85 | Subtotal void counter and total |
| AD () = 1 | ¥7.50 | +" bottle return dept. counter and | HASH v 2Q | |
| | VII. U.S. | total | ¥6.50 | Hash item void counter and total |
| D15 | 8.0000 | | HASH RF 2Q | |
| DPT.15 | -10.00 | | ¥6.50 | Hash item refund counter and total |
| BTTL(-) | 8.0000 |) | | |
| DITECT | -10.00 | " bottle return dept. counter and | VP CNT 2Q- | Validation print counter |
| | -10.60 | total | ND SALE 6Q- | No-sale counter |
| * TRANS. | ¥ | | GUEST 435Q- | Customer counter |
| V IIIII | ^ | | 1 400km | Customer counter |
| (-)2 | 10Q | | PAID TL X14522.34- | Paid total |
| | -4.95 | Subtotal © counter and total | AVE. ¥33.38— | Paid total average per |
| % 2 | 9Q | Counter and total | XXXRA 40 | customer |
| · M lönn | ¥31.29 | Subtotal % | *123.00 | Received on account |
| | //VI*E/ | Counter and total | | counter and total |
| NICT 1 | X14500.34 | Net sales total | XXXFO 2Q X81.00 | Paid out counter and |
| MEIT | X14300.54 | Met sales total | |) total |
| TAX1 ST | ¥1596.10 | Taxable 1 total | CA/CHK 20 | Cheque cashing |
| VAT 1 | ×46.49- | VAT 1 total | ¥33.00 | counter and total |
| | ¥1600.80 | Taxable 2 total | CASH 3170 |) |
| TAX2 ST | | VAT 2 total | ¥10976.60 | Cash counter and total |
| VAT 2 | X104.73- | | CHECK 680 | 6 |
| TAX3 ST | *1795.07 | Taxable 3 total | X1771.04 | Cheque sale counter |
| VAT 3 | ¥69.04 | VAT 3 total | CREDIT1 180 | and total |
| TTL TAX | *220.26 — | Tax total | *784.60 | Credit 1 sale and |
| HET | X14280.08- | Net sales total without VAT | 1 | tendering counter and total |
| | | | CREDIT2 14Q | |
| (-)1 | 240 | Item counter | | Evebage 1 counter |
| | -18.75 | and total | | Exchange 1 counter |
| %1 | 260 | Item % counter | 111.84 — | Currency exchange 1 total |
| | -32.86 | and total | DEM.CUR1 | Domestic currency for |
| CP PLU | 140 | Coupon-like PLU | EXCH2 6Q | currency exchange 1 |
| | -119.90 | counter and total | 51.70 | total |
| | | | DOM.CUR2 X103.40 | |
| REFUND | 40 | | ******CID **10866.73- | Cash in drawer |
| | X59.75 | and total | XCH ID X1892.04- | Cheque in drawer |
| | | | CA/CH ID X12758.77- | Cash/cheque in drawe |
| | | | CHK/CG | Cheque change total |
| | | | 7 | for cheque tendering |

2. Cashier report

(1) Full cashier report

Sample X1 report

XXXXCID

XCH ID

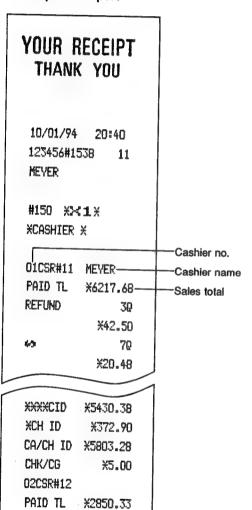
CHK/CG

03CSR#13 PAID TL X1807.29

X620.34

X8.85

X2929.09



XXXXCID X1877.11 XCH ID X531.00 CA/CH ID X2408.11 CHK/CG X5.20 04CSR#14 PAID TL X2525.24 XXXXCID X1751.95 XCH ID **X367.80** CA/CH ID %2119.75 CHK/CG **%6.55** XXXTUTAL PAID TL X14522.34 XXXXCID X10866.73 XCH ID X1892_04 CA/CH ID X12758.77 CHK/CG X25.60

(2) Individual cashier report

Sample X1 report

YOUR RECEIPT THANK YOU

10/01/94 20:42 123456#1539 11 MEYER

#151 XX1X XCASHIER X

01CSR#11 MEYER PAID TL ¥6217.68 30 REFUND X42.50 70 X20.48 MEDE 30 **X47.45** 50 MGR 0 **X47.45** SBTL 0 10 X65.60 1290 GUEST 10 XXXRA X48.00 XXXP0 10 X30.00

10

X20.00

CA/CHK

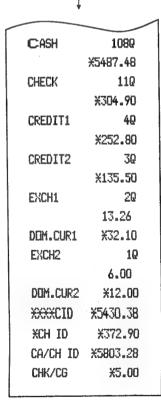
• Sample OP X report

YOUR RECEIPT THANK YOU

10/01/94 20:51 123456#1548 11 MEYER

#051 XOP≾X XCASHIER X

The subsequent printout occurs in the same format as in the sample X1 report.



3. Full department report

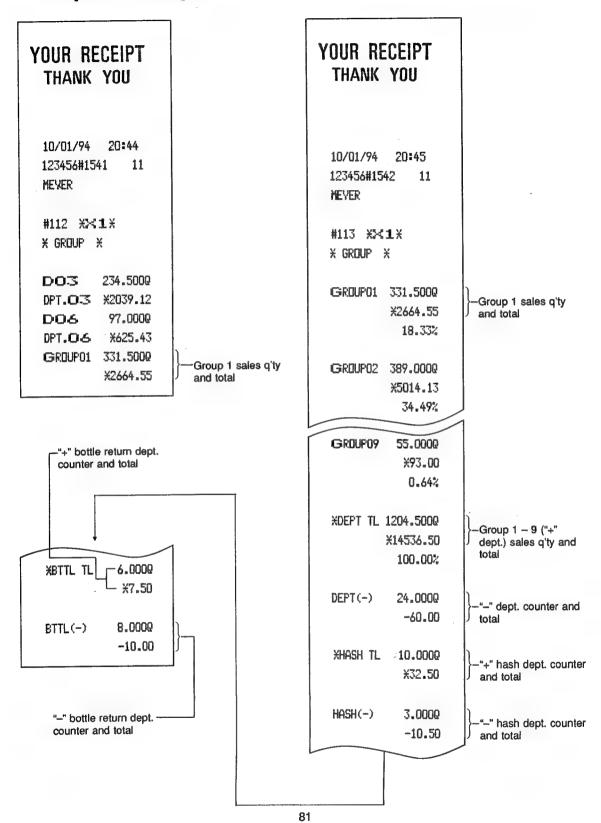
• Sample X1 report

| YOUR F | RECEIPT (you | |
|---|--|--|
| 10/01/94 123456#1 MEYER #110 X> XDEEP-1 | <1 * | |
| | 234.5000 X2039.12 | Sales gity and total |
| D06 | 76.53%— 97.0000 X625.43 | Ratio of dept. 3 sales amount to dept. group 1 total |
| GROUP01 | 23.47% | Group 1 sales q'ty and total |
| DO2 DPT.O2 | 111.0000 %1336.07 26.65% | |
| DO4 091.04 | 278.000Q ¥3678.06 | |
| GROUP02 | 73.35% 389.0000 X5014.13 34.49% | |

| | , |
|----------|-----------|
| D10 | 55.000Q |
| MILK | ¥93.00 |
| | 100.00% |
| GROUP09 | 55.000Q |
| | X93.00 |
| | 0.64% |
| | |
| XDEPT TL | 1204.500Q |
| | X14536.50 |
| | 100.00% |
| | |
| D11 | 24.0000 |
| DPT.11 | -60.00 |
| DEPT(-) | 24.0000 |
| | -60.00 |
| | |
| D12 | 10.0000 |
| | ¥32.50 |
| XHASH TL | |
| | X32.50 |
| D13 | 3.000Q |
| DPT.13 | |
| HASH(-) | 3.0000 |
| | -10.50 |
| | |
| D14 | 4.0000 |
| DPT.14 | ¥7.50 |
| XBTTL TL | |
| | ¥7.50 |
| D4E | |
| D15 | 8.0000 |
| DPT.15 | -10.00 |
| BTTL(-) | 8.0000 |
| | -10.00 |

4. Individual group report of dept.

5. Group total report



6. Total in drawer report

| YOUR RECEIPT THANK YOU | |
|---|--|
| 10/01/94 20:46 123456#1543 11 MEYER #131 XX1X X TL-ID X | |
| EXCH1 13Q — 111.84 — | Exchange 1 counterCurrency exchange 1 totalDomestic currency for currency exchange 1 total |
| XXXXCID X10866.73 XCH ID X1892.04 CA/CH ID X12758.77 | Cash in drawer Cheque in drawer Cash/cheque in drawer |

7. Transaction report

Sample X1 report

| YOUR RECEIPT THANK YOU | | |
|--------------------------------|--------------------|--|
| 10/01/94 123456#15 MEYER | | |
| #130 %X1X % TRANS. % | | |
| XDEPT TL : | 1204.500Q | |
| | ×14536.50 | |
| DEPT(-) | 24.0000 | |
| | -60.00 | |
| XHASH TL | | |
| | X32.50 | |
| HASH(-) | 3.0000 | |
| | -10.50 | |
| XBTTL TL | 6.0000 | |
| | ¥7.50 | |
| BTTL(-) | 8.0000 | |
| | -10.00 | |
| (-)2 | 100 | |
| | -4.95 | |
| 72 | 90 | |
| | ¥31.29 | |
| NET1 | X14500.34 | |
| TAX1 ST | ¥1596.10 | |
| VAT 1 | X 46.49 | |
| TAX2 ST | X1600.80 | |
| VAT 2 | ¥104.73 | |

| TAX3 ST | X1795.07 |
|-------------------|-----------|
| VAT 3 | ¥69.04 |
| TTL TAX | ¥220.26 |
| HET | X14280.08 |
| | |
| (-) 1 | 240 |
| | -18.75 |
| %1 | 260 |
| | -32.86 |
| CP PLU | 140 |
| | -119.90 |
| | |
| REFUND | 40 |
| | X59.75 |
| 40 | 160 |
| | 80.86X |
| €2 MODE | 50 |
| | ¥86.20 |
| MGR 0 | 90 |
| | ¥86.20 |
| SBTL ø | 36 |
| | X132.85 |
| HASH 0 | 20 |
| | ¥6.50 |
| HASH RF | 20 |
| | ¥6.50 |
| | |
| VP CNT | 20 |
| NO SALE | 60 |
| GUEST | 4350 |
| | |
| 1 | X14522.34 |
| AVE. | X33.38 |
| XXXRA | 40 |
| | ¥123:00 |
| XXXPO | 20 |
| | X81.00 |
| CA/CHK | 20 |
| | ¥33.00 |
| | |

| CASH | 3170 |
|----------|------------|
| | ¥10976.60 |
| CHECK | 989 |
| | X1771.04 |
| CREDIT1 | 180 |
| | ¥784.60 |
| CREDIT2 | 14Q |
| | ¥646.90 |
| EXCH1 | 130 |
| | 111.84 |
| DOM.CUR1 | ¥270.67 |
| EXCH2 | 60 |
| | 51.70 |
| DOM.CUR2 | X103.40 |
| XXXXCID | :X10866.73 |
| XCH ID | X1892.04 |
| CA/CH ID | X12758.77 |
| CHK/CG | ¥25.60 |
| | |

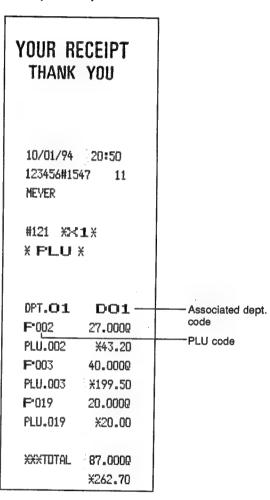
8. PLU report by designated range

Sample X1 report

YOUR RECEIPT THANK YOU 10/01/94 20:49 123456#1546 11 MEYER #120 XX1X X PLU X PLU code 001-020 -Range P 001 47.000Q Sales q'ty and PLU.001-X23.20 total P 002 27.0000 Item label PLU.002 ¥43.20 P-003 40.000Q PLU.003 X199.50 F*004 47.000Q DRANGE X207.45 P*005 9.0000 PLU.005 -108.00P 006 39.0000 PLU.006 X190.64 F-007 19.0000 PLU.007 X129.20 P-008 29.0000 PLU.008 X353.80 P018 22.0000 PLU.018 X290.40 F'019 20.0000 PLU.019 X20.00 F 020 43.000Q X182.75 PLU.020 XXXTOTAL 480,0000 X5955.79

9. PLU report by assigned dept.

• Sample X1 report



10. Hourly report

Sample X1 report

| YOUR RECEIPT THANK YOU | | |
|---------------------------|----------|--|
| 10/01/94 123456#15 | | |
| MEYER | | |
| #160 XX1X | | |
| X HOURLY X | | |
| 8:00 | 42Q | |
| | X943.10 | |
| AVE. | X22.45 | |
| 9:00 | 610 | |
| | X1351.95 | |
| AVE. | X22.16 | |
| 10:00 | 69Q | |
| | ¥1626.15 | |
| AVE. | ¥23,57 | |

| 18:00 | 620 |
|-------|-----------------|
| | ×1581.41 |
| AVE. | ¥25.51 |
| 19:00 | 34₽ |
| | X952.29 |
| AVE. | ¥28.01 |
| 20:00 | 210 |
| | X508.8 3 |
| AVE. | ¥24.23 |

COMPULSORY CASH/CHEQUE DECLARATION

 If your machine has been programmed for compulsory cash/cheque declaration, you must declare cash/cheque in drawer in advance according to the type of the declaration when you take cashier Z reports.

Use the procedure shown in 3 below for this declaration.

2. Types of compulsory cash/cheque declaration

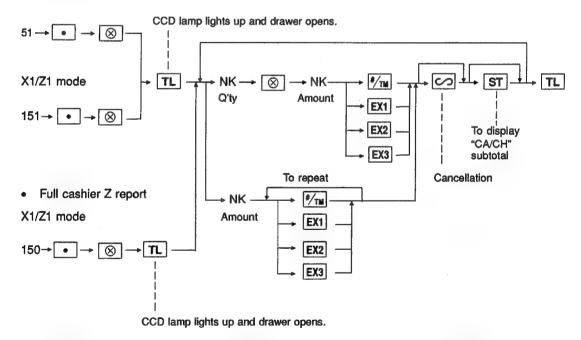
- (1) Compulsive when individual cashier resetting is taken
- (2) Compulsive when full cashier resetting is taken

Note: Compulsory cash/cheque declaration is available in the above two types. you can choose either of these. Consult your local dealer for details.

3. Key operation

· Individual cashier Z report

OP X/Z mode



*/TM : For Cash/cheque in drawer, EX1 - EX3 : For foreign currency in drawer

YOUR RECEIPT THANK YOU

10/01/94 21:28 123456#1551 MEYER

#151 XZ1X X CCD X

CA/CH IS X5803.28 EXCH1 IS 13.26

6.00 EXCH2 IS

**CASHIER *

01CSR#11 MEYER

¥6217.68 PAID TL REFUND

30 **X42.50**

CREDIT1

X252.80

CREDIT2 30

X135.50

20 EXCH1

> 13.26-Currency exchange 1 in drawer to be obtained

CCD entry amount

EXCH1 IS 13.26--Total of entered exchange 1 in drawer

CCD DIF. 0.00-Difference

X32.10-DOM.CUR1 Domestic currency for currency exchange 1 in drawer to be obtained

10 EXCH2 6.00

EXCH2 IS 6.00 0.00 CCD DIF.

DOM.CUR2 X12.00

-Cash in drawer to be obtained XXXXCID X5430.38-

-Cheque in drawer to be obtained XCH ID X372.90-

-Cash/cheque in drawer to be obtained

- Total of entered (declared) cash/cheque in drawer CA/CH IS *X5803.28-

CCD DIF. - Difference X0.00-

DIF. TL X0.00-Total of difference

CHK/CG X5.00

TRAINING MODE

You can use the TRAINING mode if you need to train someone in register operations without any change in register's memory.

Reports are not available.

When the training is completed, cancel this mode and thus put your machine back into the normal mode of operation.

(1) TRAINING-mode programming (PGM2 mode)

Procedure

For activation
 2910

 For cancellation
 2911

#2910 XPGM2X

TRAINING

START

#2911 XPGM2X

TRAINING

END

(2) Practice entries in the TRAINING mode

- Practice entries are allowed only when the mode switch is in the REG position or the MGR position.
- In order to identify training entries from actual ones, your register prints a "*TRAINING*" on the receipt and journal.
- The consecutive number is increased by one each time a receipt is published.

Sample printout of TRAINING-mode entries

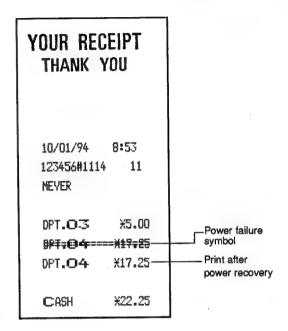
YOUR RECEIPT THANK YOU 10/01/94 8:45 123456#1109 11 MEYER XTRAININGX DPT.O.6 %3.20 DPT.O.9 X14.50 CASH X17.70

OPERATOR MAINTENANCE

1. In case of power failure

When power is lost, the machine retains its memory contents and all information on sales entries.

- (1) When power failure is encountered in register idle state or during an entry, the machine returns to the normal state of operation after power recovery.
- (2) When power failure is encountered during a printing cycle the register prints "======"" and then carries out the correct printing procedure. (See the sample print.)



2. In case of printer's motor locking

If the printer's motor happens to lock, the printing stalls, and intermittent bleeping starts. You must, first of all, turn the mode switch to the (\cline{l}) position and repair the paper jam. And then, when the mode switch is turned to a position other than (\cline{l}) , the following format appears in the display.

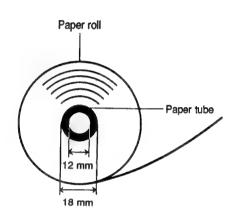
Feed the roll paper to the proper position and depress the CL key. The register prints the power failure symbol and continues printing.

3. Paper roll near-end sensing function (only for journal paper) <option>

When the journal paper roll comes near the end or is not loaded, the machine senses this condition and sounds an alarm, displaying the error message "E". At this time, clear the alarm with the CL key and replace the paper roll as soon as possible.

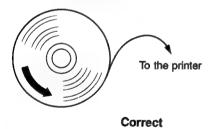
The following entry can be made after clearing the alarm. However, since this function works each time one transaction is completed, the alarm sound will be emitted again as the following transaction is completed unless the paper roll is replaced.

- The sensing position depends upon the size of the paper tube. Therefore, it is advisable to use paper rolls – whose paper tube is 18 mm in O.D. and 12 mm in I.D. – specified by SHARP.
- If the sensing occurs too early or late, contact your dealer.



4. Installing and removing the paper roll

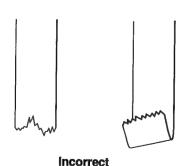
Install the paper roll in the printer. Be careful then to set the roll and cut the paper end correctly. (How to set the paper roll)



To the printer Incorrect

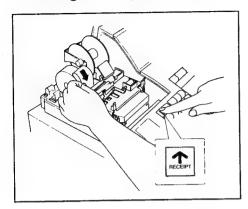
(How to cut the paper end)





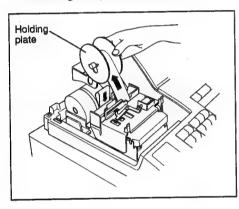
4-1. Installing the paper roll

Installing the receipt paper roll



- (1) Remove the printer cover.
- (2) Set the paper roll in place, insert its end straight into the paper chute of the printer and press the receipt paper feed key.

Installing the journal paper roll

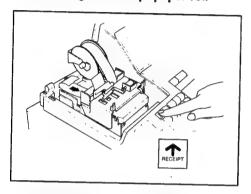


- Remove the printer cover.
 Set the paper roll following the same procedure as above and press the journal paper feed key.
- (2) Insert the paper end that has come out at the printing area of the printer, into the slit in the paper take-up spool and wind it two or three turns around the spool shaft. Then set the holding plate by inserting the spool shaft into the larger hole in the plate and slide it to the smaller one. And install the spool on the bearing.

4-2. Removing the paper roll

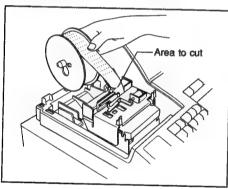
When a red dye appears on the paper roll, it is time to replace the existing paper roll. Replace the paper roll with a new one.

Removing the receipt paper roll

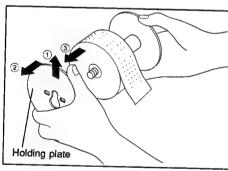


- (1) Remove the printer cover.
- (2) Cut the paper near the unused paper roll and remove the roll.
- (3) Press the receipt paper feed key to remove the remaining paper from the printer.

· Removing the journal paper roll



- (1) Press the journal paper feed key to advance the paper by several lines and then cut it.
- (2) Cut the paper near the unused paper roll and remove the roll. Push the journal paper feed key to remove the remaining paper from the printer.



- (3) ① Slide up the holding plate to move the spool shaft from the smaller hole in the plate to the larger one.
 - 2 Remove the holding plate from the spool shaft.
 - ③ Remove the paper roll from the take-up spool.

Request

Be sure to use paper rolls specified by SHARP.

The use of any other paper rolls than specified could cause paper jamming, resulting in register malfunction.

Paper specification

Paper width:

 $37.5 \pm 0.5 \text{ mm}$

Max. outside diameter:

80 mm

Weight:

52.3 - 64.0 g/m² (45 - 55 kg/1000 sheets/788 x 1091 mm²)

Quality:

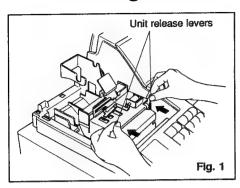
Bond paper

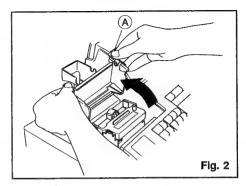
Paper tube:

18 mm

Be sure to set paper roll(s) prior to using your machine, otherwise it could malfunction.

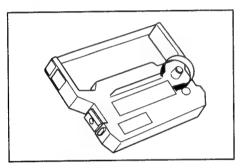
5. Installing the ink ribbon cassette



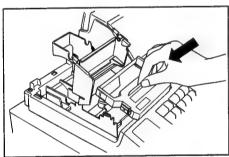


(1) Remove the printer cover, push the unit release levers at a time (Fig. 1), and then lift part (A) up (Fig. 2).

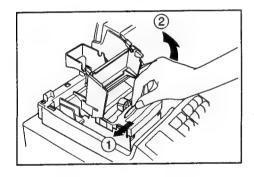
Note: To take down the unit (part (A)), pull the unit stopper (Fig. 1) in the direction of the arrow and replace part (A) gently.



(2) Rotate the knob on the ink ribbon cassette in the direction of the arrow to stretch the ribbon tight.



- (3) Put the ink ribbon cassette in the location indicated in the figure at left and fix it by using the right and left holders.
- (4) Rotate the knob two or three turns in the direction of the arrow to make sure it rotates smoothly. Also, make sure the ribbon is not folded.



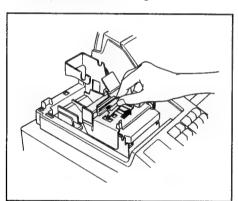
(5) To remove the cassette, push it to the left side, then lift the right side up.

Precautions

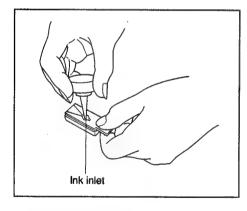
- 1. Be sure to use an ink ribbon cassette specified by SHARP. The use of any ink ribbon cassettes other than specified could cause troubles in the printer.
- 2. After opening the parcel, be careful not to make the surface of the ink ribbon dirty, and install it soon.
- 3. Don't pour ink into the ink ribbon cassette.
- 4. If you preserve the ink ribbon cassette for a long time, the ink will be dry and the ink ribbon cassette's life will be shortened. Please use it soon. If you don't use it soon, put it in an airtight receptacle and preserve it in a cool and dark place.
 - Don't leave it in a location that is subject to high humidity and direct radiation.

6. Ink refill

If the logo becomes too light, refill it with the supplied logo ink following the procedure given below.



- (1) Remove the printer cover.
- (2) Remove the store name logo by pulling it to the right.



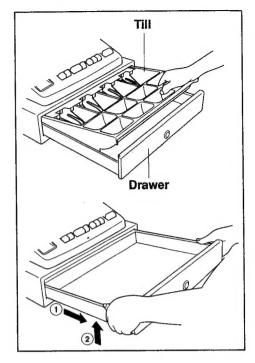
- (3) Pour two or three drops of logo ink through the ink inlet situated on the back of the logo.
- (4) Replace the logo by the reverse procedure of removing.
- (5) Replace the printer cover.

Precautions

- 1. The logo ink first gives a clear print 10 to 15 hours after being poured into the logo. Therefore, refilling after the daily business is most effective.
- 2. Overinking should be avoided. This will create a blurry print.
- The ink is exclusively used for the logo.Do not apply the ink to the ink ribbon.
- * When the supplied ink is exhausted, purchase the logo ink specified by SHARP.

7. Removing the till and the drawer

The till in the register is detachable. After closing your business for the day remove the till from the drawer and keep the drawer open. This will prevent money from being stolen. To detach the drawer, pull it forward fully with the till removed, and draw it out by lifting it up.



8. Opening the drawer by hand

The drawer automatically opens in the usual way, however, when power failure is encountered or the machine becomes out of order, open the drawer by following the procedure below.

Pull the lever in the opening located on the machine bottom toward the back. (See the figure at right.) However, the drawer will not open, if it is locked.

9. Before calling for service

The malfunctions shown in the left-hand column below, labeled "Fault," do not necessarily indicate functional faults of the machine. It is therefore advisable to refer to the "Checking" shown in the right-hand column before calling for service.

| Fault | Checking |
|--|---|
| (1) The display won't be illuminated even when the mode switch is turned to any other position than " ()". | Is power supplied to the electric outlet? Is the power cord plug out or loosely connected to the electrical outlet? |
| (2) The display is illuminated, but the whole machine refuses entries. | Is the mode switch set properly at the "REG" position? |
| (3) No receipt is issued. | Is the receipt paper roll properly installed? Is there a paper jam? Is the register in the "Receipt OFF" state? |
| (4) No journal paper is taken up. | Is the take-up spool installed on the bearing properly? Is there a paper jam? |
| (5) Printing is unusual. | Is the ink ribbon cassette installed properly? Is the ink ribbon's life completed? |

- Program resetting -

When the program resetting is performed, the register returns to the initial state with the memories all kept intact. If you need this function, please contact your local dealer.

< Procedure >

- 1) Unplug the register.
- 2) Turn the mode switch to the "PGM2" position.
- 3) Plug the register, keeping the receipt paper feed and journal paper feed keys depressed.

After the operation the printer prints "PRG. RESET *** " on the journal.

If the register still malfunctions even after program resetting, contact your local dealer.

LIST OF OPTIONS

For your ER-A430, the following options are available. Do not try to install any options yourself. For details, contact your dealer.

- 1. Till model ER-48CC2 and till cover model ER-01CV1/CV2/CV3/CV4/CV5
- 2. 1 port RS232 interface model ER-A4RS
- 3. RS232 control ROM model ER-A43R1
- 4. Connection cable (ECR to ECR) model ER-A5CB
- 5. Key kits for changing the keyboard layout

ER-11KT6: 30 regular size key kits ER-12KT6: 30 1x2 size key kits ER-22KT6: 10 2x2 size key kits

ER-11DK6: 30 regular size dummy key kits ER-51DK6: 10 5x1 size dummy key kits

| | SPECIFIC | CATIONS | |
|--|---|--|--|
| Model: | ER-A430 | | |
| External dimensions: | 420(W) x 426(D) x 298(H) mm 420(W) x 426(D) x 288(H) mm (the set delivered to the U.K. or Australia) | | |
| Weight: | 13.5 kg 12.9 kg (the set delivered to the U.K. or Australia) | | |
| Power source: | Official (nominal) voltage and frequency | | |
| Power consumption: | Stand-by: 11 W | Operating: 27 W | |
| Working temperature: | 0°C to 40°C | | |
| Electronics: | LSI (CPU), etc. | | |
| Built-in battery: | Ni-Cd rechargeable battery, memory holding time about 1 month (with fully charged built-in battery, at room temperature) | | |
| Display: | Operator display: 7-segment display (10 positions) Customer display: 7-segment display (7 positions) | | |
| Printer: Type: Printing speed: Printing capacity: Other functions: | 2-station serial dot-matrix (7x7 font) printer 3.0 lines/second 18 digits each for receipt and journal paper 1. Logo function 2. Receipt ON-OFF function, journal selective function 3. Receipt and journal independent paper feed function 4. Validation printing function | | |
| Ink ribbon: (Cassette type) | Color: Purple (single Width: 13 mm Length: 10 meters | e color) | |
| Logo: | Dimensions of the printing face: 30(W) x 10.5(H) mm | | |
| Paper roll: | Width: 37.5 ± 0.5 mm Max. diam.: 80 mm Weight: 52.3 – 64.0 g/m² (bond paper) | | |
| Cash drawer: | 4 slots for bills and 8 for | coins | |
| Accessories: | Manager key Submanager key Operator key Drawer lock key Printer cover lock key Ink ribbon cassette | 2 2 2 2 2 2 | |
| | Standard logo Logo ink Paper roll Take-up spool Instruction manual | 1 (mounted on the printer) 1 (5 cc) 2 1 1 copy | |

^{*} Specifications and appearance subject to change without notice for improvement.